CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS.
New York, February 7, 1907.

CONTENTS

CONSTRUCTION NEWS:
- Plans and Specifications on File.................... 45
- List of Contracts Pending.................... 45
- Railways 46
- Electric Railways 46
- Light and Power Plants.................... 47
- Bridges 47
- Buildings 48
- Water Supply and Irrigation.................... 49
- Sewerage 49
- Garbage Disposal 50
- Streets and Roads 50
- Manufacturing Plants 51
- Miscellaneous Contracts 51
- U. S. Possessions and Cuba.................... 53
- Foreign Contracts and Export News.................... 53
- Contract Prices 53
- Engineering Material Prices.................... 53

CIVIL SERVICE EXAMINATIONS.................... 53
PROPOSALS 54

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Feb.				
•8	Spillway	San Francisco, Cal	P. & S.	1-31
•8	Spillway, dam	S. Francisco, Cal	S.	1-10
9	Generator set	Philadelphia, Pa	S.	1-10
•11	Barracks	Fort Hancock, N. J	P., S. & B. S.	1-24
•13	Gravel road	Camden, N. J	P., S. & B. S.	1-24
16	Wharves & dredging,	Norfolk, Va	S.	1-24
16	Underground cables	Phila., Pa	S.	1-31
•18	Machine shop, etc.,	Ft. Hancock, N. J.	P., S. & B. S.	1-24
25	Lighting, etc.	Washington, D. C.	S. & B.S.	1-24
Mar.				
•1	Pipe, etc.	Winnipeg, Man	S. & B. S.	1- 3
•1	Vit. paving	St. Clairsville, Ohio	S.	2- 7
•5	Canals & ditches,	Williston, N. Dak.	P., S. & B. S.	2- 7
•12	Canals	Huntley, Mont	P., S. & B. S.	2- 7
18	Sewers	Burlington, Iowa	P., S. & B. S.	1-10

•Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close. Work. Place. On file. See issue

Feb. 8. Gas lighting, Buffalo, N. Y............Jan. 31
Feb. 8. Lighting, East Liverpool, Ohio ....Jan. 24
Feb. 10. Lighting plant, Northport, Mich............Jan. 17
Feb. 12. Electrical supplies, Wash., D. C............Feb. 7
Feb. 15. Lighting, Rock Hill, S. C............Jan. 17
Feb. 16. Underground cables, Philadelphia, Pa...Jan. 31
Feb. 16. Units, Boston, Mass............Jan. 31
Feb. 18. Power-house, Ft. Hancock, N. J............Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 20. Transmission lines, Chicago, Ill............Jan. 17
Feb. 20. Lighting fixtures, Ft. McPherson, Ga....Feb. 7
Feb. 25. Conduit, etc., Superior, Wis............Feb. 7
Feb. 25. Lighting, etc., Washington, D. C............Jan. 24
Mar. 7. Lighting, Natchez, Miss............ Dec. 20
Advertised, Eng. News, Dec. 20 and 27.
Mar. 12. Power plant, Washington, D. C............Feb. 7
Advertised, Eng. News, Feb. 7 to 21.

BRIDGES.

Feb. 7. Bridge, Lafayette, La............Jan. 24
Feb. 8. Bridges, Hammond, Ind............Jan. 3
Feb. 11. Bridges, Minneapolis, Minn............Feb. 7
Feb. 11. Piers, etc., Cornwall, Ont............Feb. 7
Feb. 11. Bridge, Midland, Mich............Feb. 7
Feb. 12. Bridge, Davenport, Iowa ....Feb. 7
Feb. 12. Bridges, Vincennes, Ind............Feb 7
Feb. 12. Bridge, Webster, Pa............Feb. 7
Feb. 12. Bridge, Bolivar, Pa............Feb. 7
Feb. 12. Bridge, Rock Island, Ill............Jan. 24
Feb. 12. Bridges, Richmond, Ind............Jan. 31
Feb. 14. Steel bridge, Cullman, Ala............Jan. 10
Advertised, Eng. News, Jan. 10.
Feb. 14. Steel bridge, Waldo, Ohio ....Jan. 17
Feb. 15. Bridge, Houston, Tex............Jan. 31
Feb. 15. Bridge woodwork, Cincinnati, Ohio ......Jan. 24
Feb. 18. Bridge, Portersville, Cal............Jan. 24
Feb. 18. Bridge, Albuquerque, N. Mex............Feb. 7
Feb. 18. Bridges, Indianapolis, Ind............Feb. 7
Feb. 25. Bridge and bridge repair, Binghamton, N. Y............Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Feb. 25. Reflooring, Jefferson, Ohio ....Jan. 31
Feb. 25. Bridge, Daggett, Cal............Jan. 31
Apr. 1. Bridge, Greenwood, Miss............Jan. 31

BUILDINGS.

Feb. 8. Library, University, N. Dak............Nov. 15
Feb. 9. School, New Paltz, N. Y............Jan. 24
Feb. 11. Barracks, Fort Hancock, N. J............Jan. 10
Advertised, Eng. News, Jan. 10 to 31.
Feb. 11. School repairs, New York, N. Y............Jan. 31
Feb. 13. Fire buildings, New York, N. Y............Feb. 7
Feb. 15. Factory, Kokomo, Ind............Feb 7
Feb. 18. School, New York, N. Y............Feb. 7
Feb. 18. School, Salem, Mass............Feb. 7
Feb. 18. School, Binghamton, N Y............Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Feb. 18. Building, Jamestown, Va............Jan. 31
Advertised, Eng. News, Jan. 31 and Feb. 7.
Feb. 18. Machine shop, etc, Ft. Hancock, N. J...Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 19. Workshops, New York, N. Y............Feb. 7
Feb. 23. Hospital, Washington, D. C............Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Feb. 25. Coliseum, Indianapolis, Ind............Feb. 7
Feb. 25. Metal working machinery, etc., Fort Hancock, N. J............Jan. 31
Advertised, Eng. News, Jan. 31 to Feb. 21.
Feb. 26. Building stone, Madison, Wis............Jan. 31
Advertised, Eng. News, Jan. 31 and Feb. 7.
Mar. 4. Leper hospital, Hawaii ....Feb. 7
Mar. 5. Interior finish, Cleveland, Ohio............Jan. 31
Advertised, Eng. News, Jan. 31.
Mar. 14. Post-office, etc., Spokane, Wash............Feb. 7
Apr. 15. Plans, Ottawa, Ont............Dec. 20

WATER SUPPLY AND IRRIGATION.

Feb. 7. Cast-iron pipe & castings, Newark, N. J.Jan. 31
Advertised, Eng. News, Jan. 31.
Feb. 7. Boiler plant, Yonkers, N. Y............Jan. 24
Advertised, Eng. News, Jan. 24.
Feb. 7. Cast-iron pipe, Yonkers, N. Y............Jan. 24
Advertised, Eng. News, Jan. 24.
Feb. 9. Cast-iron pipe, Washington, D. C......Jan. 24
Advertised, Eng. News, Jan. 24 and 31.
Feb. 11. Cocks, St. Boniface, P. E. I............Jan. 31
Feb. 14. Steel tank and tower, Milaca, Minn....Jan. 24
Feb. 14. Lining reservoir, Fort Wayne, Ind......Jan. 31
Advertised, Eng. News, Jan. 31 and Feb. 7.
Feb. 11. Pipe, Sacramento, Cal............Feb. 7
Feb. 13. Water mains, New York, N. Y............Feb. 7
Feb. 13. Pipe, etc., New York, N. Y............Feb. 7
Feb. 15. Cast-iron pipe, Greenwich, Conn............Feb. 7
Advertised, Eng. News, Feb. 7.
Feb. 15. Water tower, Pinckneyville, Ill............Feb. 7
Feb. 18. Pumps and engines, Albany, N. Y............Feb. 7
Advertised, Eng. News, Feb. 7.
Feb. 18. Pumping plant, water pipe, etc., Natal (Foreign) ....Jan. 24
Feb. 19. Reservoirs, etc., Oswego, Kan............Jan. 17
Feb. 20. Water meters, Mexico ....Jan. 10
Feb. 20. Ditch, etc., Mattoon, Ill............Jan. 31
Feb. 20. Reservoir, etc., Mt. Pleasant, Mich....Jan. 31
Advertised, Eng. News, Jan. 24 and 31.
Feb. 26. Pressure pipe, etc., Seattle, Wash.....Jan. 31
Feb. 26. Artesian well, Pierre, S. Dak............Feb. 7
Feb. 27. Dike, Crawford, Neb............Jan. 17
Advertised, Eng. News, Jan. 17 to Feb. 20.
Feb. 28. Water mains, Salt Lake City, Utah....Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Mar. 1. Pipe and specials, Winnipeg, Man............Dec. 20
Advertised, Eng. News, Dec. 20 to Feb. 21.
Mar. 2. Hydrants, Washington, D. C............Jan. 31
Mar. 5. Canals and ditches, Washington, D. C..Jan. 10
Advertised, Eng. News, Jan. 10 to Feb. 14.
Mar. 7. Distributing system, Ft. Monroe, Va....Feb. 7
Advertised, Eng. News, Feb. 7 to 28.
Mar. 7. Water mains, Salt Lake City, Utah....Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Mar. 12. Canals, Huntley, Mont............Jan. 17
Advertised, Eng. News, Jan. 17 to Feb. 7
Mar. 15. Dam, Great Falls, Mont............Feb. 7
Advertised, Eng. News, Feb. 7 to Mar 7.

SEWERAGE.

Feb. 11. Sewer, Carthage, Mo............Feb. 7
Feb. 12. Pipe sewers, Crookston, Minn............Jan. 31
Feb. 14. Sewers, Decatur, Ill............Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 7.
Feb. 15. Sewer, Wichita, Kan............Jan. 31
Feb. 15. Sewers, Buffalo, N. Y............Feb. 7
Feb. 16. Sewers, Charleston, W. Va............Jan. 31
Feb. 16. Sewers, Charleston, W. Va............Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 17. Sewers, Cincinnati, Ohio ....Jan. 24
Feb. 18. Sewers, etc., Atlanta, Ga............Jan. 31
Advertised, Eng. News, Jan. 31.
Feb. 18. Sewers, New York, N. Y............Feb. 7
Feb. 19. Sewers, Cairo, Ill............Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 21. Drains and ditches, Fort Dodge, Iowa ..Jan. 24
Feb. 25. Sewers, Hastings, Minn............Feb. 7
Feb. 28. Sewers, Salt Lake City, Utah............Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Feb 28. Sewers, Orangeburg, S. C............Jan. 31
Advertised, Eng. News, Jan. 31 to Feb. 21.
Mar. 18. Sewers, Burlington, Iowa ....Dec. 27
Advertised, Eng. News, Dec. 27.

STREETS AND ROADS.

Feb. 7. Gravel road, Brazil, Ind............Jan. 24
Feb. 7. Gravel road, Vincennes, Ind............Jan. 24
Feb. 7. Gravel road, Brazil, Ind............Jan. 24
Feb. 7. Paving and curbing, Cincinnati, Ohio...Jan. 24
Feb. 7. Brick paving, Denison, Tex............Jan. 17
Feb. 8. Improving alleys, St. Louis, Mo......Jan. 24
Feb. 11. Regulating and paving, New York, N. Y.Jan. 31
Feb. 11. Paving, Bartlesville, Okla............Feb. 7
Feb. 11. Under-grade crossing, Williamsport, Pa.Feb. 7
Feb. 12. Gravel road, Petersburg, Ind............Feb. 7
Feb. 12. Paving, Dallas, Tex............Feb. 7
Feb. 12. Paving, etc., St. Louis, Mo............Jan. 31
Feb. 12. Macadam, Rensselaer, Ind............Jan. 31
Feb. 12. Macadam curb, Bogota, N. J............Jan. 10
Advertised, Eng. News, Jan. 10 to 24.
Feb. 12. Gravel road, Petersburg, Ind............Jan. 24
Feb. 13. Gravel road, Camden, N. J............Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 7.
Feb. 13. Road repair materials, New York, N. Y.Jan. 31
Feb. 13. Sidewalk grading, etc., New York, N. Y.Jan. 31
Feb. 14. Paving, etc., Neodesha, Kan............Jan. 31
Feb. 14. Paving, El Paso, Tex............Feb. 7
Feb. 15. Macadam, Greensburg, Pa............Feb. 7
Feb. 15. Repairing road, Cincinnati, Ohio ......Jan. 24
Feb. 15. Paving, Tulsa, Ind. T............Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 14.
Feb. 16. Macadam, Laporte, Ind............Jan. 31
Feb. 18. Paving, Newburgh, N. Y............Jan. 24
Advertised, Eng. News, Jan. 24 and 31.
Feb. 18. Grading, Chagrin Falls, Ohio............Feb. 7
Feb. 18. Sidewalks, Jacksonville, Fla............Feb. 7
Feb. 18. Paving, Elkhart, Ind............Feb. 7
Feb. 18. Paving, Wichita, Kan............Feb. 7
Feb. 19. Macadam, etc., Oak Park, Ill............Feb. 7
Feb. 19. Paving, New Orleans, La............Jan. 31
Feb. 20. Grading, etc., Louisville, Ky............Feb. 7
Feb. 21. State highway, Columbus, Ohio ......Feb. 7
Feb. 21. Paving, Jefferson, Wis............Feb. 7
Feb. 23. Paving, Racine, Wis............Feb. 7
Feb. 23. Roads, Terre Haute, Ind............Feb. 7
Feb. 25. Paving, Tyler, Tex............Feb. 7
Feb. 25. Grading, etc., Nonessen, Pa............Jan. 31
Advertised, Eng. News, Jan. 31 and Feb. 7.
Feb. 26. State highway, Columbus, Ohio ......Feb. 7
Feb. 27. State highway, Columbus, Ohio............Feb. 7
Feb. 28. State highway, Columbus, Ohio ......Feb. 7
Feb. 28. Sidewalks, Salt Lake City, Utah............Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Feb. 28. Asphalt, Winnipeg, Man............Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Feb. 28. Asphalt, Winnipeg, Man............Jan. 31
Feb. 28. Paving, Corning, N. Y............Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 7.
Mar. 1. Vitrified paving, St. Clairsville, Ohio....Feb. 7
Advertised, Eng. News, Feb. 7.
Mar. 1. Improving streets, Corvallis, Ore............Jan. 10
Mar. 4. Paving, etc., Goshen, Ind............Feb. 7
Mar. 8. Curbs and gutters, Valparaiso, Ind......Jan. 17

MISCELLANEOUS CONTRACTS.

Feb. 8. Spillway, San Francisco, Cal............Jan. 10
Advertised, Eng. News, Jan. 10 to 31.
Feb. 11. Railway, Spain (Foreign) ....Dec. 6
Feb. 11. Undergrade crossing, Williamsport, Pa.Jan. 17
Advertised, Eng. News, Jan. 17.
Feb. 11. Rock removal, New York, N. Y............Jan. 31
Feb. 11. Levee, Walnut Hill, Ark............Jan. 31
Feb. 11. Toilet towers, New York, N. Y............Feb. 7
Feb. 12. Naval supplies, Washington, D. C............Feb. 7
Feb. 12. Dredging, New York, N. Y............Jan. 31
Feb. 12. Lock gate, Chattanooga, Tenn............Jan. 17
Advertised, Eng. News, Jan. 17 to 31.
Feb. 13. Dredging, New York, N. Y............Jan. 17
Advertised, Eng. News, Jan. 17 to Feb. 7.
Feb. 13. Ry. construction, Temiskaming & Northern Ohio Ry............Jan. 17
Feb. 14. Ry. construction, Trans-Continental Ry.Jan. 17
Feb. 14. Ordnance, Washington, D. C............Feb. 7
Feb. 14. Light towers, Buffalo, N. Y............Feb. 7
Feb. 15. Cement, Portage, la Prairie, Man............Feb. 7
Feb. 15. Breakwater, Revere, Mass............Feb. 7
Feb. 15. Removing tug, Ottawa, Ont............Feb. 7
Feb. 15. Lock and dam, Mobile, Ala............Jan. 17
Advertised, Eng. News, Jan. 17 to Feb. 7.
Feb. 15. Steam shovel work, etc., New Orleans, La.Jan. 31
Advertised, Eng. News, Jan. 31 to Feb. 14.
Feb. 16. Timber, wharves, etc., Norfolk, Va....Jan. 24
Feb. 16. Dredging, Norfolk, Va............Jan. 24
Feb. 16. Engineering supplies, Panama............Feb. 7
Feb. 19. Machine tools, Vallejo, Cal............Feb. 7
Feb. 19. Hydraulic dredge, Toronto, Ont............Jan. 17
Advertised, Eng. News, Jan. 17 to 31.
Feb. 20. Metal work, Baltimore, Md............Feb. 7
Advertised, Eng. News, Feb. 7.
Feb. 21. Ditches, Ft. Dodge, Iowa ....Feb. 7
Feb. 21. Ordnance, Washington, D. C............Feb. 7
Feb. 21. Elevated Ry. connection, New York, N. Y.Feb. 7
Feb. 22. Pier head, Hamilton, Ont............Feb. 7
Feb. 25. Monument, New York, N. Y............Jan. 24
Advertised, Eng. News, Jan. 24 to Feb. 21.
Feb 25. Garbage, New York, N. Y............Feb. 7
Advertised, Eng. News, Feb. 7 to 21.
Feb 25. Electric railway, Winnipeg, Man............Jan. 31
Advertised, Eng. News, Feb. 7 and 14.
Feb. 26. Sea wall, North Chicago, Ill............Jan. 31
Advertised, Eng. News, Jan. 31 and Feb. 7.
Feb. 28. Rubblestone, Boston, Mass............Feb. 7
Advertised, Eng. News, Feb. 7 to 21.
Mar. 1. Garbage removal, Adrian, Mich............Jan. 24
Mar. 2. Dredging, New London, Conn............Jan. 31
Advertised, Eng. News, Jan. 31 to Feb. 21.
Mar. 5. Buoy service, Tompkinsville, N. Y......Jan. 31
Mar. 6. Rebuilding canal locks, cement, etc., Columbus, Ohio ....Feb. 7
Advertised, Eng. News, Feb 7 to 28.
Mar. 18. Tunnel, New Zealand (Foreign)............Sept. 13
Advertised, Eng. News, Sept. 13 to Mar. 14.
Mar. 27. Dredging, New Orleans, La............Jan. 24
Advertised, Eng. News, Jan. 24 and 31.
Apr. 2. Reclamation work, British India (Foreign).Jan. 17
Apr. 12. Ditches, Brookings, S. Dak............Oct. 13
No date. R. R. supplies, Council City & Solomon River R. R............Jan. 24

CIVIL SERVICE EXAMINATIONS.

Feb. 18. Marine Engineer, San Francisco, Cal..Jan. 17
Feb. 18. Structural Steel Work Draftsman, Washington, D. C............Feb. 7
Feb. 18. Electrical Draftsman, Washington, D. C.Feb. 7
Feb. 19. Architectural Draftsman, New York, N. Y.Jan. 31
Feb. 20. Electrician, San Francisco, Cal............Jan. 17
Feb. 23. Bridge Draftsman, Albany, N. Y............Jan. 31
Feb. 23. Assistant Electrical Engr., Albany, N. Y.Jan. 31
Feb. 23. Assistant Steam Engr., Albany, N. Y..Jan. 31
Feb. 27. Chief Engineer, St. Louis, Mo............Jan. 31
Feb. 27. Surveyor, Philippines ....Feb. 14
Feb. 27. Draftsman, Washington, D. C............Feb. 14
Mar. 5. Rodman, New York, N. Y............Feb. 7
Advertised, Eng. News, Feb. 7 and 14.
Mar. 6. Irrigation Manager, Washington, D. C..Jan. 31
Mar. 6. Superv. Drainage Engr., Wash., D. C.Jan. 31

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALIQUIPPA & SOUTHERN.—It is stated that this road may be built in the interest of the Jones & Laughlin Steel Co., of Pittsburg, Pa., from the steel mills at Pittsburg to Aliquippa Park, on the Ohio River, where new blast furnaces are being built. The road would be ten miles long and would form a link in the proposed line of the Jones & Laughlin Steel Co. from Pittsburg to Geneva Harbor, on Lake Erie. B. F. Jones, Jr., is Pres.; W. W. Willock, Vice-Pres. and Gen. Mgr., and W. C. Moreland, Secy. and Treas.

BUFFALO CREEK & GAULEY.—Contract will be let for building a 2-mile extension, it is reported. William D. Janney, Clay, W. Va., is interested.

CALIENTE & PIOCHE.—E. G. Tilton, Ch. Engr., Los Angeles, Cal., advises us that the DEAL BROS. & MENDENHALL CONSTRUCTION CO., Springville, Utah, has been awarded contract for building this railroad between Caliente, Nev., and Pioche, Nev., 32 miles. Surveys are made and right-of-way obtained. J. Ross Clark is Pres., Los Angeles. It is expected to begin work this month.

CIMARRON & NORTHWESTERN.—Incorporated in New Mexico to build a railroad 36 miles long from Cimarron northwest to Van Bremmer Park. Capital stock, $360,000. Incorporators: T. A. Schomburg, of Trinidad, Colo.; C. N. Blackwell, of Raton, N. Mex.; Frank Springer, of Las Vegas, N. Mex.; W. H. Delleker and A. A. Miller, of Denver, Colo. Principal office, Raton, N. Mex.

CINCINNATI BELT & TERMINAL CO.—A belt line, 22 miles long, will be built by this company around this city for handling freight. Surveys are partly made. Company was incorporated recently, with preliminary capital of $100,000, by T. J. Moffet, W. A. Bennett, A. G. Brunsman, M. B. Farrin, Fred A. Geier, James J. Hooker, J. C. Hobart, R. H. West, A. J. Conroy, E. E. Williamson, George F. Dieterle, Casper H. Rowe, J. T. McHugh, Maurice J. Freiberg and Albert Bettinger, of Cincinnati.

CINCINNATI, BLUFFTON & CHICAGO.—S. H. Bracey, Pres., 1606 Tribune Bldg., Chicago, informs us that contracts will be let during latter part of March for building its proposed extensions from Bluffton, Ind., to Huntington, and from Portland, Ind., to Union City, 41 miles. Surveys are being made. Capital is ready. Right-of-way is being secured. D. C. Dunlap is Ch. Engr., Bluffton, Ind.

DENISON, BONHAM & NEW ORLEANS (Missouri, Kansas & Texas).—This company proposes to build an extension from Ravenna, Fannin County, to Gilmer, Upshur County, Tex., about 150 miles, and has applied for an amended charter in Texas. E. D. Steger is Pres., Bonham, Tex.

DUE WEST RY.—R. S. Galloway, Pres., Due West, S. C., states that the Due West Ry. Co. has organized and will vote on issuance of bonds on Feb. 7. Construction probably will begin soon.

EL PASO & SOUTHWESTERN.—Capital is to be increased from $7,000,000 to $10,000,000 to build extensions. J. L. Campbell is Engr. M. W., El Paso, Tex.

GARY, HAMMOND & EASTERN.—Incorporated in Indiana, with a capital of $100,000, to build a railroad from Gary to Hammond, Ind. Incorporators: William Wamsley, H. F. Moulton, Charles Braudecker, P. P. Porter and Oscar Westenberg.

GEORGIA COAST & PIEDMONT.—H. D. Emerson, Vice-Pres. and Gen. Mgr., 7 Pine St., New York, states that surveys have been completed for the extension from Darien to Brunswick, Ga., 15 miles, and that construction is being arranged for. There will be two draw-bridges over the Altamaha River, including four miles of trestle.

IOWA & NORTHWESTERN.—J. F. Lacock, Ch. Engr., Waterloo, Iowa, states that this company proposes to build a railroad from Waterloo to Stanwood, Iowa, 100 miles. The route has been surveyed from Waterloo to Monticello, 88 miles, and it is expected to begin the work of construction in April. Contracts have not been let. Stephen B. Howard is Pres., 5 Nassau St., New York.

LAKE SHORE & MICHIGAN SOUTHERN.—Contracts have been let to the CARTER CONSTRUCTION CO. to extend the Lake Erie & Pittsburg from Mill Creek Junction, near Cleveland, Ohio, to Kent, 26 miles. The line is projected beyond that place to a point not yet decided on. Samuel Rockwell is Ch. Engr., Cleveland, Ohio.

LOUISVILLE, NEW ALBANY & CORYDON.—Company has filed official notice to the effect that it intends to extend its line from Corydon, Ind., to New Albany, Ind., through Harrison, Webster and Franklin Townships, Harrison County, and Franklin and Georgetown Townships, Floyd County. The road may build a bridge over the Ohio River to secure entrance into Louisville, Ky., but this has not been definitely decided. A. B. McKinley is Vice-Pres. and Gen. Mgr., Corydon, Ind.

LYNDHURST & SHERANDO.—Incorporated in Virginia to build a railroad from Lyndhurst, in Augusta County, to what is known as the Mt. Tory property in the same county, a distance of six miles. Capital stock, $50,000. Incorporators: Jackson B. Ralston, Pres., Hyattville, Md.; John B. Sleman, Jr., Secy. and Treas.; Harvey T. Winfield, Frederick L. Siddons, James Sharp, Harry Standiford, all of Washington, D. C.; H. L. Millner, Morganton, N. C. Principal office, Alexandria, Va.

MISSOURI & NORTH ARKANSAS.—Contracts have been given by this company, formerly the St. Louis & North Arkansas, to BURKE & JOSEPHS, of Cape Girardeau, Mo., for building an extension from Leslie, Ark., southeast to Pangburn, 75 miles. Surveys are being made from Pangburn to the Mississippi River, about 100 miles, and from Seligman, Mo., northwest to Joplin, 60 miles.

MOREHEAD & NORTH FORK.—Contracts have been let to the SNYDER CONSTRUCTION CO., of Morehead, and the RINEHART & DENNIS CO., Colorado Bldg., Washington, D. C., for building this line from Morehead, Ky., to Paragon, ten miles. E. W. Hess, Clearfield, Pa., is Engr.

NEW RIVER, HOLSTON & WESTERN.—Contracts have been given to the SALE CONSTRUCTION CO., of Narrows, Va., for extending this road from Boxley to Day, Va., two miles. F. E. Bastian, Mgr., Narrows, Va.

NEW YORK, NEW HAVEN & HARTFORD.—A bill is before the Massachusetts Legislature to permit the Old Colony Railroad, which is a part of the New Haven system, to build a new line about a mile long across the Neponset marshes and the Neponset River to connect the Shawmut and Milton branches with the Granite branch. Estimated cost, $200,000 to $300,000.

OZARK COAL & RY. CO.—This company has been granted an amended charter with a capital stock of $400,000. J. H. Durkee, of Kansas City, Mo., is Pres., and J. Johnson, of Oklahoma City, Okla., Secy., others interested being John W. Shartell, O. R. Rittenhouse and Charles Combs, of Oklahoma City.

PENNSYLVANIA R. R.—At the annual meeting of the Pennsylvania Railroad to be held on March 12 the stockholders will be called upon to authorize an increase of the capital stock of the company to $500,000,000 by a new $100,000,000 issue. Authority will be asked also for an increase in the bonded indebtedness by $100,000,000.

ROSCOE, SNYDER & PACIFIC.—Surveys are made from Roscoe, Tex., to Griffiths Canyon, 53 miles. Contract for building the first 30 miles has been awarded to N. T. REED, of Abilene, Tex. The route is through a level country with a soil as productive, it is claimed, as the prairies of Illinois. There are no streams of any importance to be crossed. Line will run from Roscoe, Tex., to Portales, N. Mex. Martin Duvall is Ch. Engr., Roscoe.; F. W. James is Pres., Abilene, Tex.

SACRAMENTO & VALLEJO.—Incorporated in California with a capital stock of $1,000,000 to build a railroad about 60 miles long from Sacramento to Vallejo. Incorporators: Lucian W. Knight and Benjamin Pringle, Sausalito, and William G. Barr, San Francisco.

SOUTH WILMINGTON & SOUTHERN.—Incorporated in Illinois to build a railroad from South Wilmington, Grundy County, to Wilson, Livingston County. Capital stock, $25,000. Incorporators: A. L. Sweet, T. A. Lemmon, Walter Farmer, C. A. Sweet and R. H. Gruschow, all of Chicago. Principal office, Chicago.

SOUTHERN.—Surveys are being made to eventually change grades and alinement on the Nashville division. This work is not yet completed and no construction is authorized. W. H. Wells is Engr. of Construction, at Washington, D. C.

In addition to the new lines built by this company last year, the company completed double-track work at various points, which has been put in operation as follows: Between Danville, Va., and Spencer, N. C., 45 miles; between Knoxville, Tenn., and Morristown, Tenn., 20 miles, and between Payton and Austell, Ga., four miles, a total of 69 miles. See annual report of new mileage in issue of Jan. 24.

ST. LOUIS, BARTLESVILLE & PACIFIC.—Company has been chartered in Oklahoma, with $1,200,000 capital, to build a railway from Joplin, Mo., southwest through the northern part of the Indian Territory, thence westward through and across the Osage Indian reservation, and through Kay County, and into Grant County to Pond Creek. The estimated length of the road is 250 niles. The directors of the road are George B. Keller, Jos. J. Curl, J. L. Overless, F. M. Overless and H. L. Holin, of Bartlesville, Ind. T.; Mike Cunyan and W. L. Banum, of Ponca City, Okla.; Conrad Strecker and J. W. Bird, of Pond Creek, Okla.

WILMINGTON, BRUNSWICK & SOUTHERN.—This company has been organized by the Town Creek Railroad & Lumber Co. to build a railroad from Town Creek, N. C., south 14 miles to Lockwood's Folly, and thence to Wilmington, 12 miles. An extension from Wilmington to Southport, N. C., 30 miles, or to Little River, S. C., is proposed. Z. W. Whitehead is Pres., Wilmington, N. C.; C. J. Cooper, Vice-Pres., Fayetteville, N. C.; R. F. DeNane, Secy. and Treas.

WINNIPEG & NORTHWESTERN.—Application is to be made by A. T. Drummond, of Winnipeg, Man., at the present session of Parliament at Ottawa, for a charter for this company, which proposes to build a line from Winnipeg north between Lake Manitoba and Winnipeg, then west by way of Fort La Corne and the north side of Saskatchewan River to Lopstick River. Branches are also to be built to connect with Battleford, Lac la Biche, Edmonton and Athabasca Landing.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ELLSWORTH, ME.—Application for a charter has been made to Legislature by County Commissioner O. W. Foos and Charles H. Wooster, of Hancock; Bradbury Smith, Will R. Havey, Dr. E. J. Phelps, of Sullivan; Bedford E. Tracey, of Winter Harbor, and George H. Grant, of Ellsworth, for an electric railway from Ellsworth or Sullivan Ferry to Cherryfield, Me.

BROOKLYN, N. Y.—The Brooklyn Rapid Transit Co. is said to contemplate the third-tracking of Broadway "L" from the Williamsburgh Bridge to the intersection of Fulton St., the addition of two extra tracks on the Fifth Ave. "L" from Flatbush Ave. to 36th St., and two extra tracks on Fulton St. Extended from Franklin Ave. to connect with the four-track Brighton Beach line at Church Ave., and also extended west from Fulton St. through Hudson Ave., intersecting Myrtle Ave., thence continuing through Myrtle Ave. and Flatbush Ave. extension to the Manhattan Bridge. In addition to this, two extra tracks would be run over Myrtle Ave. from Navy St. to City Hall station, and a connection made with the two extra tracks on Fifth Ave. with the Fulton St. line at Flatbush Ave.

PEEKSKILL, N. Y.—The State Board of Railroad Commissioners has granted a charter to the Putnam & Westchester Traction Co., which proposes to build a street surface road to be operated by electricity from Peekskill to Oregon, Putnam County, 3¾ miles.

CANANDAIGUA, N. Y.—The Canandaigua Southern Electric Ry. Co. has been incorporated by E. G. Hayes, Alexander Davidson and others to build an electric railway 33 miles long.

NEW YORK, N. Y.—Bids are asked until Feb. 21, 2 p. m., by J. W. Stevenson, Comr. of Bridges, for the construction of the elevated railway connection on the Brooklyn Plaza for the Williamsburg (New East River) Bridge, over the East River, between the Boroughs of Manhattan and Brooklyn.

ALTOONA, PA.—The American Railways Co., of Philadelphia, will connect Hollidaysburg and Frankstown with an interurban electric railway. To reach the latter town, the proposed line will traverse Bald Hill, one of the steepest in Central Pennsylvania. Plans for proposed extensions to the company's system in this city include the building of a line from the Fairview terminus at High Ave. and Fourth St. by way of Ash Ave. to Juniata Park, and through that suburb to the Pennsylvania Railroad main gate of the Juniata locomotive works. Improvements at Tyrone under contemplation, and which will be begun when the weather permits, embrace a new line 1¾ miles in length and extending to Northwood. A. S. Kibbe is Ch. Engr., 1321 Walnut St., Philadelphia.

JOHNSTOWN, PA.—At a recent meeting of stockholders of the Johnstown, Ebensburg & Northern Electric Railway Co., the report of the engineering firm of Sheaff & Jaasted, 88 Broad St., Boston, Mass., on the engineering features, estimated cost, etc., of the proposed line was presented. The total length of the line, which has its terminus at Bedford, Adam and Banmer Sts., this city, and passes through Geistown, Elton, Salix, Lovett, South Fork, Summerhill, Nilmore and on to Ebensburg, is given at 31¼ miles. The total population reached by the line is 90,000. The report states that much rock excavation and grading will be necessary, and one or two bridges will have to be built, besides a number of culverts. The cost of construction is given as follows: Power-house, including equipment, $144,200; transformers and sub-stations, $15,600; trolley and transmission line, $77,500; telephone line, $4,500; car-houses and terminals, $28,800; rolling stock, $98,000; 5% engineering, $18,430; total, $387,030. To which must be added the cost of the roadbed itself, which is estimated at $601,921, making the total cost of the road complete $988,951. In the cost of the roadbed, as estimated by the engineers, are the following interesting items: Excavation and filling, $179,500; rails, $103,208; 85,000 ties, $51,000; bridges and culverts, $100,000; fencing the line, $8,500. Franchises have already been secured in Summerhill, Nilmore and Ebensburg. Franchise ordinances are now pending in the Councils of Johnstown, South Fork and Dale. The company asks this city for a 50-year grant, for which it proposes to pay down $1,000 and $1,000 a year. W. E. Hildebrand, Pres., states the line may not be built as far as Ebensburg, stopping at Gallitzin. In the event that city councils act adversely on their proposition, the company will likely make a traffic arrangement with the Johnstown Passenger Railway Co., connecting with the latter's lines at Walnut Grove. Resolutions protesting against the granting by councils of perpetual trolley franchises and endorsing the vetoes of Mayor Young have been adopted by the Merchants' Association and the Johnstown Board of the German-American Alliance. Noted on Jan. 3.

HAGERSTOWN, MD.—At the annual stockholders' meeting of the Hagerstown Railway Co. on Jan. 26, it was voted to increase the capital stock from $200,000 to $1,000,000 for the purpose of making certain extensions. Christian W. Lynch, of Harrisburg, Pa., is Pres.

BALTIMORE, MD.—The United Railways & Electric Co. of Baltimore is preparing to begin work on the proposed extension from Towson to Lutherville, two miles, in Baltimore County. List of projects was given in issue of Dec 20. William A. House is Gen. Mgr.

WASHINGTON, D. C.—IRA TAYLOR, 20 Broad St., New York, has been awarded contract for building the Washington, Westminster & Gettysburg Ry. from Washington to Gettysburg, Pa., via Westminster, Md., about 90 miles. I. B. Colegram is Pres., Sterling, Va.

ELKINS, W. VA.—The Leadville Power Co., through R. Dardin, one of the incorporators, has applied for a franchise to build an electric street railway in Elkins.

ATLANTA, GA.—The Atlanta & Carolina Construction Co. has accepted a franchise in the city of Atlanta for the electric line that will run from Conyers, Ga., via Atlanta to West Point, Ga.

COVINGTON, TENN.—Survey, plans, etc., for the proposed Memphis, Covington & Northern Railway have been completed by the W. K. Palmer Co., Dwight Bldg., Kansas City, Mo. Road is to be 39 miles long, extending from Memphis to Covington and beyond, and is to be part of a system of interurban lines around Memphis. Contracts will be awarded when financial arrangements are completed.

NEW ORLEANS, LA.—William J. Kelly has been granted an extension of one year to build the proposed electric railway in St. Bernard Parish, and has posted a forfeit of $5,000.

FREMONT, OHIO.—The [illegible] nt Belt Connection Co. has been inc[illegible] ed, with a capital stock of $1,000, by [illegible] Webb C. Hayes, John W. Horst, John [illegible] Sherman, Frank Heim, Charles Thomps[illegible] d A. H. Jackson. The capital stock [illegible] soon be increased to $500,000. The [illegible] ation for the charter states that the [illegible] e of the company is to build an electr[illegible] from a point in the Toledo, Port Clint[illegible] Lakeside track through Salem, Rice [illegible] Sandusky Townships and into Ballville [illegible] hip, Ottawa County. This will give [illegible] s to the State camp grounds and rifle [illegible] ge near Port Clinton.

CLEVELAND, OHIO.—Franc[illegible] Morgan, Pres. and Gen. Mgr. of the [illegible] land & Sharon Electric Ry. Co., ha[illegible] plied to Trumbull County Commissione[illegible] is reported from Warren, Ohio, fo[illegible] franchise for a new line. See Jan. 3.

DILLONVALE, OHIO.—We [illegible] officially avised that T. J. STRINGER, [illegible] Rayland, Ohio, has been awarded contra[illegible] r building the Dillonvale & Ohio Ri[illegible] Traction Co.'s line. Mr. Stringer is [illegible] J. T. Hodgens, of Rayland, is Vice-P[illegible] W. B. Francis, of Martin's Ferry, Oh[illegible] is Secy. and Atty. Surveys are comple[illegible] and the right-of-way is secured. The [illegible] will be built entirely on private right-[illegible] ay outside of corporation limits, and [illegible] tside of those limits will have no grade [illegible] 2%, and with a maximum curvature of [illegible] with the exception of one 13° curve. T[illegible] D. & O. R. Traction line will be 6½ mil[illegible] g, from Rayland to Dillonvale, Ohio, an[illegible] ill form a portion of a line to be built fr[illegible] Uhrichsville, Ohio, on the Pan Handle T[illegible] ion Co., via Cadiz, Adena and Dillonvale, [illegible] Rayland, Ohio, on the Ohio River, where [illegible] nections will be made with Steubenville, [illegible] hio, and Wheeling, W. Va., by means of th[illegible] line now being constructed from Wheeling t[illegible] Steubenville by the Wheeling Traction [illegible] W. C. Fawcett, of Wheeling, W. Va., [illegible] the Ch. Engr. The surveys were made by [illegible] he Central Engineering Co., Rose Bldg. [illegible] leveland, Ohio. Capital is assured. Work w[illegible] l average about 15,000 cu. yds. a mile, mo[illegible] y shale.

EAST LIVERPOOL, OHIO.—The Council has passed an ordinance granting to the Ohio River & Northern Railroad Co. the privilege of constructing its tracks through this city. The road will be about 20 miles long, of heavy construction. P. M. Smith, of Wellsville, Ohio, is Attorney.

FRANKFORT, IND.—Right-of-way between this city and Delphi, Ind., has been secured by the Frankfort, Delphi & Northern Traction Co. Franchises have also been obtained to enter and pass through Frankfort, Pyrmont, Rossville and Delphi. The company was recently incorporated with A. S. Strauss, of Chicago, as Pres., and W. H. Cohee, of Frankfort, Vice-Pres. and Gen. Mgr.

LANSING, MICH.—The Saginaw, Owosso & Lansing Railroad Co., capital $600,000, has filed articles of association with the Secretary of State. The company in its articles declares an intention to build an electric railroad from Saginaw to Lansing, touching at Owosso and other intermediate towns. The incorporators of the company are: John L. King, Syracuse, N. Y.; Phil H. McMillan, Charles B. Warren, Charles W. Baird, Frank W. Eddy, Frank West, Thomas E. Reeder, George M. Black, J. A. Thick, William B. Cady, Detroit, and Frank B. Richardson, Cleveland. It is said that the line will practically parallel the Michigan Central line from Saginaw to Lansing, except that it will take in several towns not now on the line of the steam road.

TECUMSEH, MICH.—Council has granted a franchise to the Adrian, Ann Arbor & Detroit Electric Ry. Co. Work on the road must begin here within 18 months, and the road must be in operation between Adrian and Ann Arbor and Adrian and Detroit within two years.

SIDNEY, IOWA.—W. E. Farlow & Co., 25 Broad St., New York, are said to be organizing a syndicate to finance the construction of an electric railway from Omaha and Council Bluffs to Tarkio, Mo., via Tabor and Sidney, Iowa. This is the line projected by W. J. Dodds, of Tabor, Iowa, and known as the Council Bluffs, Tabor and Southern Electric Railway Co.

MANKATO, MINN.—A company will be organized in New Jersey, to be known as the Mankato Electric Traction Co. Committees have been appointed to solicit subscriptions to preferred stock. The authorized stock issue is to be $175,000, of which $75,000 is to be preferred. The authorized issue of first-mortgage gold bonds is also $175,000, bearing 5% interest. The company first contemplates the building and operation of six miles or seven miles of road within the city limits of Mankato and North Mankato, and later, if conditions warrant, the building of from ten to twelve miles more, to Kasota and St. Peter, in which event freight will be hauled also.

OWATONNA, MINN.—The Twin City, Rochester & Dubuque Ry. Co. has submitted a franchise to City Council which it had drafted for the approval of the Council. The franchise asks for the privileges of the streets of Owatonna and for the donation of a 20-acre site. The franchise was referred to the finance committee of the Council for further investigation. The company has a capital stock of $5,000,000, and proposes to build an electric railway connecting St. Paul and Minneapolis with all the principal cities between those cities and Dubuque.

SAN ANGELO, TEX.—J. H. Ransom, of Boulder, Colo., has applied to the City Council for a street railway franchise. He agrees to build one mile the first year, three the second, and four the third.

DENVER, COLO.—Benjamin Avery and Frank S. Miller, of Cleveland, Ohio, are interested in building an electric railway between Denver and Greeley, Colo. The surveys have been made by Frank Macarthy, of Denver, and a townsite has been located about five miles from Platteville and on the main line of the Union Pacific, which will be the headquarters for the operating department. The town will be called Gilcrest.

MANITOU, .O.—Franchise rights for a street railw Manitou for 25 years, to extend to C Park, have been granted to W. C. D and Wesley Compton. The road, which ost approximately $250,000, must be ted and put in operation within two according to the franchise. It is said new electric railway will utilize the oadbed built 25 years ago for a pro steam line to the summit of Pike's Crystal Park. Power for the road secured from the Pike's Peak Hyd tric Co.

DURANG LO.—The preliminary survey has been for an electric railway for handling ngers and freight between Durango, a, Bayfield and Pine River, Colo. The as projected will be 30 miles long and co proximately $400,000, and will have a lar eight traffic. The matter of securing id and capital is under way, and it is ted that finances will be secured to c ct the line this year. J. H. Eby, Dura s Engr.

WINNIP MAN.—Bids are asked by Magnus P n, Secy. of the Board of Control, until Feb. 25, for the construction of a sing ck electric tramway from Point du to Lac du Bonnet, a distance of 24 mi Check, $5,000. Plans and specificatio ay be seen at the office of Cecil B. S Civic Power Expert, Carnegie Library B Winnipeg. Estimated çost, $250,000. A rnative bids will be received for (a) tie livered; (b) track-laying and ballasting; remainder of construction as specified. vertised, Engineering News.)

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

PORTSMOUTH, N. H.—The Bureau of Yards and Docks, Navy Department, will advertise for proposals shortly for one 1,000-KW. direct current generator, direct-connected to the reciprocating engine with a speed of not more than 100 r. p. m., or to a steam turbine, having a speed not in excess of 1,500 r. p. m., for the Navy Yard, Portsmouth, N. H. The contract will allow ten months for completion of the work, the estimated cost of which is $45,000

NORTHAMPTON, MASS.—It is reported that the Massachusetts Light Co. is making arrangements to secure power from a dam to be constructed at Indian Head.

BALTIC, CONN.—The Uncas Power Co., which has just been organized at Norwich, by Edwin W. Higgins and others, will spend probably $200,000 in the construction of a power plant. The company has acquired a valuable water privilege on the Shetucket River three miles north of Baltic. A circular dam, nearly 400 ft. long, will be constructed and a power station erected. A fall of 26½ ft. can readily be secured. The plant which will be capable of generating electrical energy of not less than 1,200 KW. will be constructed in the spring. Charles W. Comstock, Pres.; John D. Hall, Secy., and Costello Lippitt, Treas.

NEW YORK, N. Y.—The following bids were received Feb. 4, by C. B. J. Snyder, Supt. School Bldgs., for installing electric equipment in buildings of the Parental School, on the westerly side of road between Flushing and Jamaica, about 1,700 ft. south of North Hempstead Turnpike, Flushing, Boro. of Queens: T. Frederick Jackson, Inc., 592 Columbus Ave., $37,340; Frank E. Gore, 206 Broadway, $38,484; Peet, McAnerney & Powers, 225 Fourth Ave., $38,848; Reis & O'Donovan, 1123 Broadway, $43,000; Frederick Pearce Co., 20 Rose St., $42,367; Stevens-Hewett Engineering Co., 13 Park Row, $37,371; Commercial Construction Co., 1 Madison Ave., $39,569.

We have been officially advised that the ABBOT-GAMBLE CO., 32 Broadway, have been awarded the contract for installation of conduit extensions in Long Island City, for the New York & Queens County R. R. Co. F. W. Hebberd, Long Island City, is Supt.

NIAGARA FALLS, N. Y.—An application will be made to the Legislature for an amendment of the city charter providing for installation of a municipal electric light plant in this city.

PHILLIPSBURG, N. J.—The Town Council has awarded the contract for street lighting to the EASTON POWER CO. for a period of five years, at $65 per arc lamp a year. B. T. Pierson, Easton, Pa., is Mgr.

WOODBURY, N. J.—The City Council is making arrangements to install a municipal lighting system.

PENNSBURG, PA.—It is reported that it is proposed to construct an electric light plant at a cost of $15,000. An engineer has not yet been selected. Henry J. Smith is Boro. Clerk.

TYRONE, PA.—The American Railways Co., Witherspoon Bldg., Philadelphia, is having plans prepared for a power-house to be built at this town. The building will have one story and will be constructed of brick and steel. New equipment will be installed. Estimated cost, $40,000. H. J. Cowley, Philadelphia, is Gen. Mgr.

SCRANTON, PA.—The Scranton Ry. Co., Witherspoon Bldg., Philadelphia, is having plans prepared by their engineer, A. S. Kibbe, Philadelphia, for a power-house at this city. The building will be of steel and brick fireproof construction, and will cost about $300,000. Complete equipment will be installed.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Mar. 12, by the Building Committee, for constructing power-house and installing equipment in the new buildings for the U. S. Department of Agriculture, Washington. R. T. Galloway is Chn. (Advertised, Engineering News.)

Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., Washington, until Feb. 12 to furnish electrical and other supplies at the navy yards, etc., Portsmouth, N. H.; Boston, Mass.; New York, N. Y.; League Island, Pa.; Annapolis, Md.; Washington, D. C.; Norfolk, Va., and Charleston, S. C. E. B. Regers is Paymaster-Gen.

ROWLESBURG, W. VA.—The town has voted affirmatively the proposed $12,000 bond issue for the erection of electric light plant.

WILMINGTON, N. C.—It is reported that People's Electric Light & Supply Co. is being organized with $100,000 capital stock to establish electric light and power plant.

FORT McPHERSON, GA.—Bids are asked until Feb. 20 by Capt. B. B. Buck, Constr. Q. M., for furnishing and installing electric light fixtures in the exchange and gymnasium buildings at this post.

HUMBOLDT, TENN.—It is reported that the Board of Public Works has decided to install a new 150-HP. boiler so as to increase the capacity of the water and light plant.

LOUISVILLE, KY.—We are officially informed that work on plans for the plant of the Kentucky Electric Co., to be constructed at Louisville, has just been begun. A 3,000-KW. lighting plant with underground distributing system will be installed. The plant will be situated on Water St., east of Third Ave., and will extend back to Washington St. Lewis S. Strong, Seventh and Ormsby Sts., Louisville, Ch. Engr., designed the plant.

EATON, OHIO.—An ordinance has been passed by the Council granting a franchise to the Eaton Electric Light, Power & Ice Mfg. Co. The franchise is for a term of 25 years.

HAMILTON, OHIO.—It is reported that the Board of Public Service on Jan. 24 authorized an appropriation of $180,000 for improvement and enlargement of the electric light plant and water-works. It is also reported that A. L. Duwelins, 206 East Fifth St., Cincinnati, will have charge of the electric work, and John W. Hill, First National Bank Bldg., Cincinnati, will have charge of the water-works improvements.

DEFIANCE, OHIO.—We are officially advised that the Auglaize River Power Co. will erect a hydro-electric power plant near this town. H. von Schon, Detroit, Mich., is Consult. Engr.

ISHPEMING, MICH.—It is reported that Granger Farwell, 226 La Salle St., Chicago, Ill., has purchased the property and plant of the Marquette County Gas Light & Traction Co., and will expend about $60,000 for improvements. F. W. Judson, Ishpeming, is Supt.

DECATUR, ILL.—Plans are being prepared for changes and improvements to the lighting plant of the Decatur Ry. & Light Co., which is controlled by the McKinley syndicate. L. E. Fischer is Mgr., Danville.

JOLIET, ILL.—It is reported that about $1,000,000 will be expended by the Economy Light & Power Co., Joliet, for improvements and additions to its plant. J. R. Staley, Joliet, is Supt. and Ch. Engr.

HATFIELD, WIS.—It is reported that the La Crosse Water Power Co. proposes to construct a dam on Black River at Hatfield, which will cost about $1,000,000. Bids will be called for soon. W. J. Ferris, La Crosse, is Gen. Mgr.

SUPERIOR, WIS.—Bids are asked until 3 p. m., Feb. 25, by James Knox Taylor, Superv. Arch., Washington, D. C., for installation of a conduit and wiring system in the U. S. post-office, court-house and custom-house at Superior.

COUNCIL BLUFFS, IOWA.—The Omaha Electric Light & Power Co. has decided to expend about $50,000 for improvements in Council Bluffs, including the repair of old gas mains and construction of larger mains. H. A. Holdrege is Mgr.

VINTON, IOWA.—It is reported that M. Tschurgi & Sons, Engrs., of Dubuque, Iowa, have completed plans for dam to be constructed in Cedar River for power purposes, which they estimate at $92,000.

NEWTON, IOWA.—The City Council has decided to expend about $15,000 in new equipment for the municipal electric light plant. A. C. Gates, Newton, is Supt.

FORT DODGE, IOWA.—S. W. Beyer, of Ames, Iowa, is making estimates on the cost of a dam for the development of power on the Des Moines River, at Fort Dodge. It is reported that a 15-ft. head can be obtained, which will develop about 3,000 HP.

STERLING, NEB.—Plans are being prepared for establishment of an electric plant in this town. Fred Buehler and J. Jerabek are interested.

LAKIN, KAN.—It is reported that a franchise has been granted to Charles Waterman and T. N. Thorpe for an electric light plant which is to be in operation within a year.

CHILLICOTHE, MO.—A bond issue of $100,000, for constructing combined water and electric plant at Chillicothe, has been voted by the citizens. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

ST. LOUIS, MO.—M. L. Holman, 721 Olive St., St. Louis, has been commissioned to prepare estimates of cost of a municipal lighting plant. Charles M. Talbert is C. E., Bd. Public Improvements.

MINERAL WELLS, TEX.—H. D. Beardsley is preparing to establish a power plant here, to cost about $20,000.

DENISON, TEX.—It is reported that the Denison Light & Power Co. will spend $50,000 in improvements to electric light and gas plants, completely remodeling same and installing modern appliances. W. A. Everitt is Secy. and Mgr.

STEAMBOAT SPRINGS, COLO. — The Steamboat Springs Electric Co. will place orders within two months for a new and complete generating station of 150-HP., including generator, engine, boilers, switchboard and all accessories. D. L. Carver is Supt. and Ch. Engr.

CHESAW, WASH.—It is reported that J. Shaw contemplates installing an electric light plant at this town.

WALLA WALLA, WASH.—The Northwestern Gas & Electric Co. will develop power from the falls of Des Chutes River. Isaac W. Anderson, Walla Walla, is Mgr.

ROSALIA, WASH.—The City Council has granted a franchise for an electric lighting and power plant to the Spokane & Inland Ry. Co. A. M. Lupfer, Spokane, is Ch. Engr.

MARSHFIELD, ORE.—It is reported that a franchise has been granted to the Coos Bay Gas & Electric Co. to furnish light and power in the city of Marshfield for a term of 35 years. The company will soon commence to furnish a day service. The temporary power-house at Porter has been put into operation to furnish electricity for lighting North Bend.

CORVALLIS, ORE.—A resolution has been passed by the City Council of Corvallis in favor of a $10,000 municipal electric light plant.

ALBANY, ORE.—The Santiam Electric Co. is arranging for construction of seven power canals along the North Santiam River. Five canals will be constructed in Linn County, and two in Marion County. Joseph M. Healey, Oregon City, Ore., is interested.

SACRAMENTO, CAL.—It is reported that the Western Pacific Ry. Co. will install an electric plant at Flower Lake tunnel and use electricity to run the drills and light the tunnel which is now under construction.

LOS ANGELES, CAL.—A gas company with a capital of $10,000,000 will be organized in Los Angeles. It is the intention of the organizers to build a thoroughly modern plant, and, if necessary, additional plants will be established. The first plant will be on a tract of ten acres at a location yet to be selected.

GRACE, IDAHO.—The Telluride Power Co., Salt Lake City, Utah, will erect a power plant in this city at a cost of about $1,000,000.

PRINCE ALBERT, SASK.—The Board of Trade has received a report from Charles H. Mitchell, C. E., on the Shell River power proposition. It shows that 1,000 HP. can be developed on that river at a distance of eleven miles from this city, and an additional 1,000 HP. at comparatively small cost. A. E. Doak is Secy.

STREETSVILLE, ONT.—John A. Fielding, C. E., of Toronto, is preparing plans, and will receive bids for construction of a concrete dam, a power-house and installation of the equipment at this town.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

BRIDGEPORT, CONN.—The Congress St. Bridge Committee reports that a temporary bridge will be constructed at Congress St. Cost, $20,000. William Starr is City Engr.

SOUTH WINDHAM, CONN.—The UNITED CONSTRUCTION CO., 467 Broadway, Albany, has been awarded contract for constructing 2-span, steel highway bridge, at $5,360.

BINGHAMTON, N. Y.—Bids are asked by the Common Council until 8 p. m., Feb. 25, for constructing bridge over Chamberlain Creek on Court St. Bids also are asked at the same time for repairing superstructure of Court St. bridge. D. C. Herrick is City Clk. S. M. Baird is City Engr. (Advertised Engineering News.)

BROOKLYN, N. Y.—The ABBOT-GAMBLE CO., 32 Broadway, New York, has been awarded contract for the construction of solid concrete floors for bridges over streets crossing the right-of-way of the Brighton Beach Division of the Brooklyn Union Elevated R. R., between the L. I. Railroad crossing and Brighton Beach, for the Brooklyn Heights Railway Co.

UTICA, N. Y.—The Park Ave. bridge across the Mohawk River, which was recently destroyed by high water, will be rebuilt. Paul Schultz is City Engr.

TROY, N. Y.—Edward B. Cary, City Engr., has been directed to prepare plans for constructing bridge across the Wynantskill River at Mill St.

BOLIVAR, PA.—Bids are asked by Board of County Commissioners until Feb. 12 for constructing bridge at Bolivar. D. W. Shupe, at Greensburg, Pa., is Pres. Bd. County Comrs.

POINT MARION, PA.—Bids are asked by the County Commissioners for constructing bridge across Cheat River at this place. M. E. Townsend, at Uniontown, Pa., is Pres. County Comrs.

WEBSTER, PA.—Bids are asked by the Board of County Commissioners until Feb. 12 for constructing steel bridge, with stone and concrete piers, at Webster. D. W. Shupe, at Greensburg, Pa., is Pres. Bd. County Comrs. A. H. Nelson, 1103 Machesney Bldg., Pittsburg, Pa., is Engr.

NORFOLK, VA.—SANFORD & BROOKS CO. has been awarded contract for constructing Colley Ave. bridge, at $11,892. The contract for widening Tanner's Creek bridge has been awarded to JOHN MONK, Norfolk, at $15,860. W. T. Brooke is City Engr.

ELBERTON, GA.—The Board of Commissioners of Elbert County contemplates constructing steel bridge over Broad River at Bell's Ferry, connecting Elbert and Wilkes Counties.

NEW ORLEANS, LA.—It is reported that the Illinois Central R. R. Co. will construct steel viaduct across its property at intersection with Constantinople St. Estimated cost, $5,000. A. S. Baldwin, Chicago, Ill., is Ch. Engr.

CAMPBELLSVILLE, KY.—The contract for constructing steel bridge across Green River between this city and Columbia has been awarded. Bridge is to be completed by May 1.

KNOXVILLE, TENN.—Plans have been made by W. C. Croger, City Engr., for repairing bridges in the city. Estimated cost, $20,000.

TOLEDO, OHIO.—The City Council has passed an ordinance permitting the Lake Shore & Michigan Southern Ry. Co. to construct proposed wagon bridge from foot of Monroe St. to Goose Point. R. H. Reid, at Cleveland, Ohio, is Supvr. Bridges.

INDIANAPOLIS, IND.—Bids are asked by the County Commissioners until 10 a. m., Feb. 18, for constructing bridges and culverts in Franklin, Lawrence, Wayne, Washington, Pike and Center Townships. Cyrus J. Clark is County Audr.

VINCENNES, IND.—Bids are asked by Board County Commissioners until Feb. 12 for constructing various bridges in Wayne County.

MIDLAND, MICH.—Bids are asked by the City Council until Feb. 11 for constructing either a 2-span or 1-span steel truss bridge, complete with piers and abutments. Estimated cost, $30,000.

QUINCY, ILL.—It is reported that the iron bridge over Mill Creek on the Pape's Mill Road has been destroyed and the Bridge Commissioners will construct new bridge.

WATERTOWN, WIS.—It is reported that Darnfield & Kunert are preparing plans for constructing bridge at Watertown. Estimated cost, $30,000.

DAVENPORT, IOWA.—Bids are asked until Feb. 12 for constructing steel bridge and viaduct at 24th St. Thomas Murray is City Engr.

DES MOINES, IOWA.—We are officially advised that the MIDLAND BRIDGE CO., 662 Gibraltar Bldg., Kansas City, Mo., has been awarded contract for moving steel bridge over Des Moines River, at $9,234. Bids were received from the following: J. K. Barcroft & Co., Des Moines; O. P. Herrick, Des Moines; The Canton Bridge Co., Omaha, Neb.; Cook Construction Co., Des Moines; Iowa Bridge Co., Des Moines; J. F. Griffith Bridge Co., Des Moines; Marsh Bridge Co., Des Moines; Minneapolis Steel & Machine Co., Minneapolis, Minn., and Des Moines Bridge & Iron Co., Des Moines. George D. Dobson is City Engr.

KILBOURN, IOWA.—It is reported that the Board of County Commissioners will rebuild bridge at this place.

SIGOURNEY, IOWA.—JOHN RITZINGER has been awarded contract for bridge constructing during the present year.

DUBUQUE, IOWA.—At a recent meeting of the stockholders of the Dubuque & Wisconsin Bridge Co. it was agreed to spend $21,000 in constructing a new 324-ft. steel span and keeping the Wisconsin roads leading to the bridge in good condition. Bart E. Linehan is Pres. Peter Klauer is Vice-Pres.; Louis Lindenberg is Secy.-Treas. The directors are Bart E. Linehan, A. L. Rhomberg, Peter Klauer, L. H. Brede, A. Roeber, Charles A. Rutter, Louis Lindenberg and William Meuser.

MINNEAPOLIS, MINN.—Bids are asked by the Board of County Commissioners until 11 a. m., Feb. 11, for building or repairing bridges Nos. 32, 38, 51 and 65. Hugh R. Scott is County Audr.

RICE, MINN.—The Joint Town and County Committee has awarded contract for constructing a 2-span steel bridge with concrete piers, over the Mississippi River at this place, to the HENNEPIN BRIDGE CO., Minneapolis, Minn., at $19,498.

AURORA, MINN.—It is reported that a new steel bridge will be constructed across the St. Louis River at this place. John Sundeen is County Comr., at Duluth, Minn.

HALLOCK, MINN.—We are officially advised that contract for constructing 100-ft. span iron bridge over Two Rivers River has been awarded to the NORTHWESTERN BRIDGE CO., Moorhead, Minn. N. G. Brown is Village Clk.

RICE, MINN.—It is reported that a new bridge will be erected to replace one recently destroyed by floods. Cost, $17,000.

WICHITA, KAN.—The Senate has passed a bill permitting Sedgwick County to construct a bridge across the Arkansas River.

BROKEN BOW, NEB.—The Board of County Commissioners has awarded the bridge contract for present year to the STANDARD BRIDGE CO., Omaha, Neb.

CASPER, WYO.—The Wyoming & Northwestern Ry. Co. will construct five Howe steel truss bridges between Casper and Lander.

ST. LOUIS, MO.—The St. Louis Electric Bridge Co. has been incorporated, at $2,500. The incorporators and board of directors for one year are: W. H. Burke, C. A. Wright and George M. Mattis, with principal office at Venice. The company will construct, maintain and operate a bridge across the Mississippi River for the carriage of foot passengers, railway cars and engines, street railway cars, wagons and vehicles of every kind.

An appropriation of $25,000 has been authorized for reconstructing the south span of the 18th St. bridge.

FT. SMITH, ARK.—It is reported that J. W. Carter, of Ft. Smith, will construct and operate a free pontoon bridge across the Poteau River for $4,500. T. R. Bayley is City Engr.

ALBUQUERQUE, N. MEX.—Bids are asked until Feb. 18 for rebuilding bridge over Chamisal Ditch. A. B. Walker is Clk.

ROSWELL, TEX.—The City Council is considering constructing a new bridge across the North Spring River.

KELSO, WASH.—The contract for constructing new bridge between Kelso and Catlin has been let to J. A. FASTABEND.

LA CONNER, WASH.—The NORTHWEST BRIDGE CO. has been awarded contract for constructing a new span in the Mt Vernon bridge, at $3,279.

PROSSER, WASH.—The Commissioners have awarded contract to C. E. LUM, of North Yakima, for repairing county bridge at this place, at $4,294. Two 120-ft. combination spans with new piers will be added.

SEATTLE, WASH.—We are officially advised that S. NORMILE, Seattle, has been awarded contract for grading, curbing, constructing concrete sidewalks, sewers and water mains in Wellington Ave. and various streets, at $38,823. William Stanley & Co., Benke Block, Seattle, bid $39,434. R. H. Thomson is City Engr.

SEATTLE, WASH.—See under Streets and Roads.

PORTLAND, ORE.—J. B. TILLOTSON has been awarded contract for erecting steel bridge across Sullivan's Gulch, at $58,000. Work has been started. Douglas W. Taylor is City Engr.

BOISE, IDAHO.—E. G. SHEELEY, Denver, Colo., has been awarded contract for constructing county bridge across Boise River, at $26,000. James Stephenson, Jr., is State Engr.

BONNERS FERRY, IDAHO.—It is reported that a bridge across the Kootenai River at this place will be constructed. Cost, $27,500.

CULDESAC, IDAHO.—A bridge costing approximately $225,000 is to be erected by the Northern Pacific Ry. Co. across Lawyer Canyon, on Camas Prairie, as soon as the contract can be awarded and work started. The new bridge, which will be built entirely of steel, with concrete piers, will be 1,300 ft. long and 275 ft. high at the highest point. Approximately 2,500 tons of steel will be used in the structure. Work on the new bridge, which is on the branch line from Culdesac to Grangeville, will be started in three or four months' time. It is expected that about two months' work will be needed to complete the structure. J. E. Campbell, at Tacoma, Wash., is Supvr. Bridges and Bldgs.

SHEELEY, IDAHO.—The Commercial Club of Sheeley will construct a new bridge over the Snake River, between this city and Woodville.

AUBURN, ONT.—We are officially advised that contract for erecting superstructure of steel bridge across Maitland River has been awarded to A. HILL & CO., Mitchell, Ont., at $3,546. D. Patterson is County Comr.

CORNWALL, ONT.—Bids are asked by H. E. Hodgins, Osnabruck, Ont., until Feb. 11 for constructing reinforced concrete piers, grading, etc., for bridges to be built in Osnabruck Township. Magwood & Walker, Cornwall, Ont., are Engrs.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—The Committee on Armories of the Board of Aldermen has submitted a favorable report upon the proposed construction of armory in Charlestown, which will cost about $200,000.

BOSTON, MASS.—The following bids were received Jan. 30, at the Boston City Hospital, for building the Burnham Memorial Hospital: Norcross Bros., 1143 Tremont St., $130,500; John J. Cranitch, 7 Water St., $129,432; William Crane, 7 Water St., $127,952; C. A. Dodge & Co., 8 Beacon St., $120,997; Whiton-Haynes Co., 572 John St., $118,073; McNeil Bros., $113,977; C. H. Belledue, 5 Providence Court, $112,887; McGahey & O'Connell, $111,745; Mack & Moore, 22 Chapman Pl., $110,900; Woodbury & Leighton Co., 166 Devonshire St., $109,500; Maguire & Penniman Co., $107,836.

SALEM, MASS.—Bids are asked until noon, Feb. 18, for constructing High School building, at Salem, and installing plumbing and electric systems. William G. Rantoul, 6 Beacon St., Boston, is Arch.

PROVIDENCE, R. I.—Bids were received Jan. 31, at the office of James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., for the construction and completion of the post office building at Providence, R. I. Bids were: Horton & Heminway, 683 Atlantic Ave., Boston, Mass., $406,985; complete in 18 months. Ambrose B. Stannard, St. James Bldg., New York, $447,571; as specified. Thompson-Starrett Co., 49 Wall St., New York, $535,000; Feb. 1, 1908. Cramp & Co., Commonwealth Bldg., Philadelphia, $491,800; June 1, 1908. John Pierce Co., New York, $458,408; 12 months. J. W. Bishop Co., 109 Foster St., Worcester, Mass., $508,141; Feb. 1, 1908. Norcross Bros. Co., Main and Foster Sts., Worcester, Mass., $498,000; Feb. 1, 1908. Michael J. Houlihan, Providence, R. I., $529,000; Nov. 15, 1908. Maguire & Penniman, Providence, R. I., $521,602; Dec. 1, 1908.

HARTFORD, CONN.—A Supreme Court building, with which will be combined the Connecticut State Library, will be built at Hartford, and will cost about $3,000,000. The new building is to be 337 ft. in length, with a depth of 80 ft. at the end of each wing, and with an extension in the rear of the central hall, 20 × 34 ft.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Feb. 18, by C. B. J. Snyder, Supt. School Buildings, for general construction of additions to and alterations in Public School 96, on the east side of Ave. A, between East 81st and East 82d Sts., Boro. of Manhattan.

NEW YORK, N. Y.—The following bids were received Feb. 4, by C. B. J. Snyder, Supt. School Bldgs., for installing heating and ventilating apparatus in Public School No. 30, on the easterly side of Conover St., between Wolcott and Sullivan Sts., Boro. of Brooklyn: Monad Engineering Co., 147 Cedar St., $44,700; E. Rutzler Co., 127 White St., $44,444; Blake & Williams, 211 West 20th St., $39,948; Frank Dobson, 319 East 53d St., $41,944; George A. Suter & Co., 112 Wooster St., $47,242.

We are officially advised that Robert T. Lyons, 31 Union Sq., has plans for an apartment building at corner of 97th St. and Riverside Drive, for himself. The building will have six stories, will be built of terra cotta, limestone and brick, and will cover an area of 73 × 92 ft. Estimated cost, $200,000.

NEW YORK, N. Y.—Bids are asked until 10.30 a. m., Feb. 13, by Francis J. Lantry, Fire Comr., for erection and completion of a new storehouse building to be located on the north side of Myrtle Ave., 70 ft. east of North Elliott Pl., Boro. of Brooklyn; also for furnishing all the labor and materials required for additions and alterations to building of Volunteer Hook and Ladder No. 4, for quarters of Engine Company No. 205, located at No. 135 Jersey St., New Brighton, S. I., Boro. of Richmond.

We are officially advised that the Apartment Construction Co., 135 Broadway, will build an 8-story store and loft building to replace the old business building, No. 810 Broadway, just north of Grace Church. It will have a frontage of 23.8 ft. and a depth of 110 ft. with extension. The facade of ornamental iron will be set in brick, trimmed with terra cotta. Samuel Mandel is Pres. of the company. The cost is placed at $150,000 by the architects, Rouse & Sloan, 11 East 43d St. Bids for the various kinds of work are being received.

JAMESTOWN, N. Y.—We are officially advised that bids were received Jan. 31 for constructing court-house, but that contract has not yet been awarded. Estimated cost, $135,000. W. J. Beardsley, Poughkeepsie, is Arch.

BINGHAMTON, N. Y.—Bids are asked by the Board of Education, until noon, Feb. 18, for erecting a school building on the site of the old Robinson St. Bldg. H. Sumner Gardner, Ockerman Bldg., is Arch. (Advertised, Engineering News.)

ATLANTIC CITY, N. J.—Plans have been prepared for an auditorium, 225 × 110 ft., to be constructed on Young's New Ocean Pier, at the lower end of Atlantic City. The plans, which are by H. A. Stout, of Atlantic City, and M. Ward Easby, Crozer Bldg., Philadelphia, Pa., call for a steel and concrete structure built out over the ocean. The hall, which will be devoted to dancing, will be curved at both ends, with a gallery extending around all sides. Work will be started as soon as all bids are in, and an effort will be made to have the hall open for the summer season. The cost will be nearly $200,000.

JOHNSTOWN, PA.—Beezer Bros., Archs., 6200 Penn Ave., Pittsburg, have let general contract to CRAMP & CO., Twelfth and Chestnut Sts., Philadelphia, for the 5-story fireproof brick department store, 100 × 254 ft., for the Penn Traffic Co. Joseph Berlin is Gen. Mgr., Johnstown. Estimated cost, $350,000.

PITTSBURG, PA.—Clepper & Moffitt, Archs., 339 Fifth Ave., are taking preliminary estimates on a 6-story warehouse to be erected by a company of Pittsburg capitalists in Amberson Ave., East End. Cost, $400,000.

PHILADELPHIA, PA.—Plans have been prepared by George U. Rehfuss, Arch., 1524 Chestnut St., for a roller skating rink, to be built of brick, concrete, iron and glass, at the corner of Broad and York Sts. The building will cover about 40,000 sq. ft. A swimming pool will be constructed of concrete, which, it is stated, will occupy the entire basement. Estimated cost, $150,000.

Wilson, Harris & Richards, Archs., Drexel Bldg., have plans for a 7-story building, 44 × 126 ft., at 17th and Chestnut Sts., for the American Baptist Publication Society. Cost, $300,000.

A 32-story office building, to cost $3,500,000, is to be erected on the site of Association Hall, Chestnut and 15th Sts., and it is expected that when negotiations are completed by George B. Wilson, the proprietor, the Philadelphia Stock Exchange will occupy quarters in the structure. Building operations will be begun either next October or in April, 1908. The building will be 350 ft. high, and will have a frontage of 230 ft. on 15th St. and 72 ft. on Chestnut and Sansom Sts.

SCRANTON, PA.—It is reported that William Kelly, of the firm of Casey & Kelly, has announced his intention of erecting an apartment house on Adams Ave., which will accommodate fifty families. It will be six stories in height, and its estimated cost will be $150,000.

WILMINGTON, DEL.—We are officially advised that bids will be received in the spring for constructing a Y. M. C. A. building at Wilmington. The style and size of building have not yet been decided upon. The building will cost about $150,000, and the equipment, $50,000. J. W. Lawson, Jr., is Secy.

BALTIMORE, MD.—It is reported that contract for the construction of the store and office building at the corner of Courthouse Plaza and Lexington St. has been awarded to CRAMP & CO., Twelfth and Chestnut Sts., Philadelphia. The land is owned by Felix Isman, 1328 South Penn Sq., Philadelphia, and J. Q. Horwitz.

WASHINGTON, D. C.—The plans being prepared by Henry Vaughn, 29 Pemberton Sq., Boston, Mass., for erection of the Protestant Episcopal cathedral, at Mt. St. Alban, near Washington, will be completed within six months. The structure will be built in the shape of a cross, and in the Gothic style of architecture, of stone construction, both outside and inside. Its cost, with the school and institutions grouped around it in the quadrangle, it is estimated, will represent more than $1,000,000.

The GEORGE A. FULLER CO., Munsey Bldg., Washington, have contract to construct, and are preparing plans for an office building, to be erected at 13th and G Sts., N. W., for John Mariner, of Norfolk, Va. The structure will be of stone and will be eight stories high.

Bids are asked until noon, Feb. 23, by the Commissioners of the District of Columbia, for constructing a tuberculosis hospital. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids were opened Jan. 30, at the office of Elliott Woods, Supt. of U. S. Capitol Building and Grounds, Washington, D. C., for supplying marble for the new office building for the U. S. Senate to be erected in Washington. Bids were as follows: Rullman & Wilson, Mt. Royal and Lafayette Aves., Baltimore, $159,987; white marble from Beaver Dam, Md., quarry; $187,897; green marble, King of Prussia marble quarries, Pa. Batterson & Eisele, Times Bldg., New York, $156,000; Lee, Mass., marble. Hilgartner Marble Co., Sharp St., Baltimore, $160,780; Italian marble, Carrara, $180,885; green marble, Easton, Pa. Vermont Marble Co., Proctor, Vt., $127,500; $132,500; $137,000; $142,000; $137,000; $140,000, on various kinds of marble from their quarries, Rutland Co., Vt. B. A. & G. N. Williams, 5 East 42d St., New York, $121,000; South Dover, N. Y., marble. William A. Bradley & Son, 277 Broadway, New York, $144,362, white marble, Rutland, Vt.; $144,362 green marble, Eastman's, Vt.; $191,842, green marble, Easton, Pa.; $128,437, white marble, Lee, Mass.; $135,747 and $175,917, alternates on green marble.

ATHENS, GA.—An office building, to cost $250,000, will be erected by MILES & BRADT, Atlanta, Ga., for the Southern Mutual Insurance Co. The new building is to be seven stories high, without including the basement, and will be constructed throughout of ferro concrete.

MONTGOMERY, ALA.—We are officially advised that it has not yet been decided whether Gay-Teague Realty Co. will erect a hotel or an office building. The structure will be of terra cotta, stone and brick, more than ten stories high, and will cover 80 × 120 ft. Contract for construction will be let in about one month. Carpenter, Blair & Gould, 475 Fifth Ave., New York, N. Y., are Archs.

It is reported that N. J. Bell has announced his intention to erect a 12-story office building at the corner of Lee and Montgomery Sts., to cost not less than $275,000. The plans have already been drawn and it is expected work will begin at once, as the building is to be completed by Oct. 1.

JACKSON, MISS.—It is reported that Joel F. Johnson will receive bids for constructing an 8-story hotel about March 1. The building and equipment will cost approximately $250,000. R. H. Hunt is Arch.

KNOXVILLE, TENN.—W. J. Oliver and associates contemplate building a hotel and office building to cost about $850,000, of steel and concrete construction. There will be a passageway between the two buildings leading to a rear lot, on which a theater probably will be erected. Frank J. Milburn Co., Home Life Bldg., Washington, D. C., are Archs.

NASHVILLE, TENN.—It has been announced that the Nashville Y. M. C. A. will build a $200,000 structure on Vine St.

LOUISVILLE, KY.—Board of Public Works has rejected all bids received Jan. 19 for construction of annex to City Hall. C. N. Curtin, Arch., is revising plans to bring cost within amount appropriated, $160,000, which all bids exceeded on Jan. 19. Proposals will be asked for later.

CINCINNATI, OHIO.—Plans are being prepared for construction of a 15-story office building for the Provident Savings Bank & Trust Co., now located in the Chamber of Commerce Bldg. The new skyscraper will be erected at the corner of Seventh and Vine Sts., S. E., and will cost about $500,000.

INDIANAPOLIS, IND.—Bids are asked until Feb. 25, by the Board of Public Works, for erecting a coliseum, to cost about $400,000.

A masonic temple will be erected on what is known as the Schnull property, at the corner of Illinois and North Sts. The building will cost about $300,000, and work will be begun in the spring.

LANSING, MICH.—A State office building will be erected on property owned by the State in this city, which will cost $300,000.

An addition will be built to the State Capitol. The cost will be about $500,000.

DETROIT, MICH.—An 8-story office building, to cost about $200,000, is to be erected at the corner of 17th and Campa Sts. The capital for the project is to be furnished by Edwin R. Cooper and Charles Boettcher. The floors will be reinforced concrete, the stairs of cement, all doors and window frames will be cast of metal, and the wooden doors will be reinforced and protected from fire by sheet steel. Italian marble and tile will be used in the decoration.

CHICAGO, ILL.—The South Park Commissioners, Washington Park, Cottage Grove Ave. and 57th St., will advertise for bids this month for two field houses, one to be built in Park No. 4 Square, at 46th Pl. and Princeton Ave., and the other to be known as Hardin Square, at 26th St. and Wentworth Ave. They will be 2-story, each 300 × 60 ft., will have concrete foundations, superstructures of pressed brick and stone, tile roofs, interior finish of hard wood, enamel, glazed brick and plaster, steam heat, wiring for electric light, sheet metal work, iron work, plastering, painting. They will each contain reading rooms, gymnasiums, shower baths, restaurants, lunch rooms, etc., and will cost in all $150,000. J. F. Foster, Supt. of the Board, Washington Park, has charge of the work. D. H. Burnham & Co., Exchange Bldg., are the Archs.

Plans for a model school building for the Board of Education have been prepared by Dwight H. Perkins, Arch., 143 Dearborn St., Chicago. This school will be built as an addition to the Cornell School, 76th St. and Drexel Ave. It will be 3-story, of fireproof steel construction, have pressed brick, stone and terra cotta exterior, probably slate roof, steam heat, wiring for electric light, all the latest improvements, contain 15 class rooms, each 22 × 33 ft., a gymnasium and assembly hall, and cost $150,000.

MILWAUKEE, WIS.—Work will begin Feb. 15 wrecking the buildings at Grand Ave. and Third St. to make room for the proposed Majestic Theater, which will be erected on the site.

CEDAR RAPIDS, IOWA.—Plans are being prepared by James Knox Taylor, Superv. Arch., Washington, D. C., for addition to post-office and court-house at Cedar Rapids. The structure will be of stone and brick, three stories, and will cost $200,000.

KANSAS CITY, MO.—Plans for a 12-story building to be erected at the corner of Eleventh and Walnut Sts. by Meyer & Simson, will be completed within [illegible] months. The building will cost about [illegible] and will have a frontage of 48 f[illegible] Eleventh St. and 110 ft. on Walnut St[illegible] Beeson, 101 East Eleventh St., is Res[illegible]

KANSAS CITY, MO.—W[illegible] D. Charde, 342 Exchange Bldg., Ka[illegible] City, is promoting a scheme to co[illegible] a 24-story building at Main and De[illegible] Sts., which will cost about $2,000,000. [illegible]ph P. Mitchell, Gibraltar Bldg., is A[illegible]

TULSA, IND. T.—It is r[illegible] that J. G. McGannon, of Seneca, Mo[illegible] erect a 6-story bank here, at a cost [illegible]out $1[illegible]0,000.

DENVER, COLO.—The [illegible]ers of the American Mining Cong[illegible] contemplate erecting a building on Col[illegible] Ave., to cost about $250,000.

PORTLAND, ORE.—Cons[illegible] work will be commenced immediately [illegible] a theater building, to cost about $2[illegible] for Sam S. & Lee Shubert, Inc., 39th S[illegible] Broadway, New York, N. Y.

E. A. Baldwin, McKay [illegible] and F. O. Downing, Portland Hotel, [illegible] erect a 6-story with basement buildi[illegible] the north-east corner of Park and Al[illegible] Sts. at once. It will cost about $175,00[illegible] The specifications were prepared by W[illegible] & Lewis, Concord Bldg.

SEATTLE, WASH.—Georg[illegible] Frye is to build a 6-story hotel at the [illegible] of Third Ave. and Yesler Way. The [illegible] will be 111 × 120 ft., and will cost [illegible] Plans have been made by Bebb & [illegible]del, Denny Bldg.

Graham & Meyers, Globe [illegible] are drawing plans for a 10-story office building, to cost $300,000, which is to be [illegible] by C. J. Smith, New York Block, at the corner of Third Ave. and Stewart St. The building will be 120 × 120 ft. It will have a steel frame and probably will be faced with glazed terra-cotta. The building will contain approximately 250 offices and the ground floor corner will be used as a bank. Excavating has already commenced.

An 8-story building is to be erected soon by J. A. Baillargeon & Co. at the corner of Second Ave. and Spring St., at a cost of $400,000. The building will have a frontage of 120 ft. on Second Ave. and 111 ft. on Spring St. The structure, which is to be of the French renaissance style of architecture, will be a class A building. The frame will be of steel and the facing will be of brick and terra cotta. Saunders & Lawton, New York Block, are Archs.

SPOKANE, WASH.—It is reported that J. E. Horton will erect a $175,000 store building on First Ave.

SPOKANE, WASH.—Bids are asked until 3 p. m., March 14, by James Knox Taylor, Superv. Arch., Washington, D. C., for construction of U. S. post-office, court-house and custom-house, at Spokane.

LOS ANGELES, CAL.—The Consolidated Realty Co. will erect a building at Sixth and Hill Sts., to cost about $500,000. D. A. Hamburger, A. W. Rhodes, W. E. Deming and others are interested.

J. W. Robinson & Co., Boston Store, 239 South Broadway, are having plans prepared by Theo. Eisen, Wilcox Bldg., for a 5-story building, which is to be erected at a cost of $180,000.

SAN DIEGO, CAL.—S. F. ALLEN, of Pasadena, has been awarded the contract to build the new high school by the Board of Education. This contract calls for the expenditure of $175,000. The plans provide for two wings to the front, connected by a central edifice, with two square towers in the center.

SAN FRANCISCO, CAL.—E. L. Goldstein has applied to the Board of Public Works for a permit to erect a 4-story brick structure at the corner of Sutter and Gough Sts., to cost $175,000.

THOMAS H. DAY'S SONS, 1012 Devisadero St., have been awarded the contract for a 6-story and basement brick warehouse at Mission and Third Sts. for the Keil Estate Co. Estimated cost, $100,000. Meyer & Ward, 532 Market St., are Archs.

The Hooker & Lent Building is to be erected at the corner of Market and First Sts. It will be ten stories in height, and a Class A structure with steel frame, having exterior of pressed brick and terra-cotta. The cost will be over $200,000, and it will be nearly a year in building.

SAN FRANCISCO, CAL.—Regarding reconstruction of the Palace Hotel, it has been decided to build a structure to cover the entire site of the old building. The former plan did not contemplate the construction of a main building to extend from Market to Jessie Sts., but an open palm garden, between narrow wings, facing on the latter thoroughfare, was considered. Arrangements have been made to erect a main building of nine stories, with a 2-story extension on Jessie St., which will contain a ballroom, reception, banquet and dressing rooms, similar in arrangement to those of the old Palace, but on a more magnificent scale. There will be a palm court, which will be roofed with glass.

Meyers & Ward, Archs., are preparing plans for a building for C. F. Kohl, which will be erected on the west side of Third St., between Market and Mission Sts. Estimated cost, $150,000.

E. J. Nagel has applied for a permit to erect a 5-story apartment house on the south side of Pacific Ave., near Webster St., to cost $125,000.

OAKLAND, CAL.—Plans are being prepared for a 5-story structure which is to be erected at San Pablo Ave. and 17th St. The new building, which is to cost $170,000, is to be built by W. C. Brett.

Negotiations are under way for erection of a $100,000 building at Broadway and 19th St., and it is probable that plans for the proposed structure will be begun in a short time. Max Koeng is the owner of the property.

STOCKTON, CAL.—A hotel is being planned for this city. The building will be erected on the block bounded by Weber Ave., Hunter, El Dorado and Bridge Sts., and will be 30 ft. long and 100 ft. wide. The hotel pr five stories in height, will occupy th ern portion of the site, 200 × 100 ft. the western end, three stories high, wi r an area of 100 × 100 ft. It has bee gned in the style of the early Spanish issance, with Mission arcades and roo mounted by gables, dormer windows owers. Estimated cost, $350,000.

MONT QUE.—The Canadian Pacific Ry. Co purchased St. Lawrence Hall, St. Jam for $550,000, and will have the buil altered from a hotel to an office buildin B. McConnell, Montreal, is Res. E

OTTA ONT.—Fred Gelinas, Secy. Public Wor has announced an extension of the tim receiving competitive designs for the osed new Departmental and Justice b s at Ottawa, from April 15 to July 1. The time for receiving competitiv gns for the new department block ssex St. has been extended also, from M 15 to June 12.

OTTA ONT.—An apartment house, contain 0 suites, will be erected on Elgin St. in pring by Joseph K. Paisley. The cost o structure is estimated at $100,000. M aisley is proprietor of the Grand Union l.

TORO ONT.—The contracts for the four n Normal Schools in Ontario have been a ded by the Government to F. WHITM Brantford, Ont., at a total cost of $212, as follows: School at North Bay, $54,20 Peterboro, $53,800; at Hamilton, $5 , and at Stratford, $52,050.

TORONTO, ONT.—E. J. Lennox, Arch., 164 Bay St. has prepared plans for a residence for Sir Henry Pellatt. It will cost $250,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

WESTFORD, MASS.—A new water-works system will be constructed for this town. The system will consist of wells and pumping station to be located near the Pine Ridge station on the Boston & Maine R. R.; a 300,000-gallon stand-pipe in Forge Village and a 100,000-gallon stand-pipe on Prospect Hill, Westford Centre. Total estimated cost, $72,996. Edmund M. Blake, C. E., 8 Beacon St., Boston, Mass., is Consult. Engr.

GREENWICH, CONN.—Bids are asked by the Greenwich Water Co. until 4 p. m., Feb. 15, for laying about 12,000 ft. of c.-i. pipe. R. Jay Walsh is Pres. (Advertised, Engineering News.)

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., Feb. 18, for furnishing, delivering and erecting centrifugal pumps and engines at the filtration plant pumping station. Isidore Wachsman is Clk. Bd. of Contract and Supply. Walter Melius is City Engr. (Advertised, Engineering News.)

BUFFALO, N. Y.—The contract for erecting electric pumps at the water-works has been awarded to the CAMDEN IRON WORKS, Camden, N. J., at $30,400. The following bids were also submitted: Buffalo Steam Pump Co., $33,234; Snow Steam Pump Co., $36,500, and Allis-Chalmers Co., $39,350. Henry L. Lyon is Deputy Water Comr.

CORNING, N. Y.—We are officially advised that the following were lowest bidders for improving and extending the water-works system, (a) by furnishing c.-i. pipe and special castings; (b) hydrants, valves and boxes; (c) pipe laying, and (d) improving, repairing and covering old reservoir: (a) Camden Iron Works, Camden, N. J., $51,588; (b) Mine & Smelter Supply Co., 42 Broadway, New York, $4,503; (c) Brooks, Fitz & Partridge, Scranton, Pa., $18,764; (d) J. Vaughn, Stamford, N. Y., $37,822. Itemized bids will be given in full under Contract Prices next week. J. F. Witmer, at Buffalo, N. Y., is Engr.

BUFFALO, N. Y.—Bids were received by the Department of Public Works Jan. 23 for furnishing a vertical turbine pump, with electric motor, having capacity of 25,000,000 gallons per 24 hours, as follows: R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., $30,400; Allis-Chalmers Co., Milwaukee, Wis., $39,350; Buffalo Steam Pump Co., 490 Broadway, Buffalo, N. Y., $33,234, and the Snow Steam Pump Works, 116 Liberty St., New York, $36,500. Francis G. Ward is Comr. Pub. Wks.; Charles M. Morse is Deputy Engr. Comr.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, until 2 p. m., Feb. 13, for furnishing and delivering pipe, pipe fittings, valves, boiler tubes, etc.

Bids also are asked for hauling, delivering and laying water mains in North Vermont St., Crosby Ave., Miller Ave. and Miller Pl., and in streets adjacent to Highland Park.

NEW BRUNSWICK, N. J.—The Jamesburg Light & Water Co. has been incorporated by William M. Brown, Newark; Harold B. Clark, Plainfield, and William J. Lansley, Woodbridge, N. J., at $100,000. The company will construct a water and electric light plant. William J. Lansley is the agent.

ASBURY PARK, N. J.—ROBERT BARTLEY, JR., has been awarded contract for cleaning filters at the water-works. John L. Coffin is Supt. Sewer and Water Dept.

ASBURY PARK, N. J.—We are officially advised that RIDPATH & POTTER, 587 Bourse Bldg., Philadelphia, have been awarded contract for digging 8-in. artesian well, 1,100 ft. deep, at $4.25 per ft.

We are officially advised that the following bids were received Feb. 4 for erecting pump capable of delivering 2,500,000 gallons per 24 hours against a pressure of 75 lbs.: Platt Iron Works, 100 Broadway, New York, cross compound vertical, $20,450; compound horizontal, $6,000; compound horizontal, $5,350; cross compound horizontal crank and flywheel, $7,680; turbine engine and turbine pump, $6,310. R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., centrifugal pump and turbine engine, $3,985. Bethlehem Foundry & Machine Co., 149 Broadway, New York, engine and belt-driven pump, $8,500. Dravo, Doyle & Co., Philadelphia, Pa., centrifugal pump and turbine engine, $4,100. Marine Engine & Machine Co., 126 Liberty St., New York, horizontal crank and fly-wheel, $11,000. Holly Construction Co., 5 Nassau St., New York, horizontal crank and flywheel, $13,655. Henry R. Worthington, 114 Liberty St., New York, horizontal compound, $5,740; triple expansion, $7,275. Bids have been referred to Edward S. Farrow, Consulting Engr., at 143 Liberty St., New York. John L. Coffin is Supt., Dept. of Sewers and Water.

WASHINGTON, D. C.—Bids were received by the District Commissioners Feb. 2 for furnishing (a) 3-in., (b) 4-in., (c) 6-in., and (d) 12-in. c.-i. water pipe, as follows: Lynchburg Foundry Co., Lynchburg, Va., (a) $40.35, (b) $38.85, (c) $37.80, (d) $37.30 per ton; Allegheny Forging Co., Pittsburg, Pa., (a) $51.30, (b) $47.45, (c) $46.10, (d) $45.35; M. J. Drummond & Co., 182 Broadway, New York, (a) $44.65, (b) $40.65, (c) $39.60, (d) $38.40; United States Cast-Iron Pipe & Foundry Co., Land Title Bldg., Philadelphia, (a) $44.20, (b) $43.70, (c) $42, (d) $40.80.

FORTRESS MONROE, VA.—Bids are asked until noon, March 7, by Capt. R. H. C. Kelton, Q.-M., for constructing a water distributing system at Fort Monroe. (Advertised, Engineering News.)

ALBANY, GA.—It is reported that the House of Representatives has passed a bill authorizing damming Flint River at Porter Shoals, near Albany, where it is estimated about 12,000 HP. can be developed for transmission by electricity. The Albany Power Co., which has recently been incorporated at $2,500,000 for developing water powers and establishing electrical plants, will probably build the dam across Flint River. Alexander W. Smith, Frank L. Meufville and E. M. Underwood are the incorporators.

CORDELE, GA.—It is reported that the city will extend the present water-works and sewerage system. R. W. Barwick is City Engr.

PENSACOLA, FLA.—The Board of Trustees has recommended that an offer be made to the Pensacola Water Co. of $187,500 for the company's plant and mains. Frank Reilly is Chn. Finance Com.; L. Earle Thornton is City Engr.

BOAZ, ALA.—It is reported that the city will construct a water-works and electric light plant. J. D. McCleskey is Mayor.

PRATTVILLE, ALA.—The city will issue $30,000 in bonds for constructing water-works.

BRISTOL, TENN.—An act enabling Bristol, Tenn., to issue $300,000 of water-works bonds has passed the state legislature. The city authorities will proceed this year to procure a new water supply.

HAMILTON, OHIO.—The Board of Public Service has decided to install a new intake pipe at the water-works and a new 6,000,000-gallon pump at the water-works, gas and electric plants, and about 750 new electric street lights. Chris. Eberling is Ch. Engr of city water-works, gas and electric plants.

TOLEDO, OHIO.—Bids are asked by the Board of Public Service for improving the pumping station at the water-works by increasing the capacity by 300 HP. Frank I. Consaul is Ch. Engr. Bd. Pub. Service.

YOUNGSTOWN, OHIO.—The FARNUM BRASS CO., Cleveland, Ohio, has been awarded by the Board of Public Service contract for furnishing 500 curb boxes to the water-works department. MUELLA & CO., Indianapolis, Ind., has been awarded contract for furnishing corporation cocks. The contract for furnishing 1,400 water main taps has been let to KIST BROS. F. M. Little is City Engr.

INDIANAPOLIS, IND.—The committee appointed by the City Council has recommended immediate improving of the Brightwood water plant by extending the mains and installing new machinery. Blaine H. Miller is City Engr.

SARANAC, MICH.—It is reported that a new water-works system will be constructed at this place.

WYANDOTTE, MICH.—We are officially advised that the Board of Public Works contemplates establishing a filtration plant. James G. Pinson is Secy. Bd. Pub. Wks.

PEKIN, ILL.—It is reported that the City Council is considering constructing new water-works. D. H. Jansen is City Engr.

ROCKFORD, ILL.—The water mains will be extended during the present year. Edward Main is City Engr.

VIRGINIA, ILL.—It is reported that a new water-works and reservoir will be constructed at this place.

GENOA, ILL.—The Board of Public Works has decided to lay an 8-in. main in North Main St.

PINCKNEYVILLE, ILL.—Bids are asked until 6 p. m., Feb. 15, for erecting a 120-ft. steel water tower, having capacity of 75,000 gallons. W. W. Burke is City Clk.

ALBIA, IOWA.—It is reported that the city will improve the present water-works system.

ATLANTIC, IOWA.—It is reported that the Chicago, Rock Island & Pacific Ry. Co. will construct a pumping plant at this place. J. B. Berry, at Chicago, Ill., is Ch. Engr. Bridges and Roadway.

DODGE CENTER, MINN.—It is reported that the city is considering constructing a water-works system.

ST. PAUL, MINN.—We are officially advised that bids were received Jan. 30 by the Board of Water-Works for furnishing c.-i. water pipe, as follows: The U. S. Cast-Iron Pipe & Foundry Co., 80 Broadway, N. Y., $30,550; American Car & Foundry Co., Detroit, Mich., $32,797; R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., $32,564; Dimmick Pipe Co., Birmingham, Ala., $30,754, and the National Brass & Metal Co., Minneapolis, Minn., $30,061. John Caulfield is Secy. Bd. Water-Wks.; L. E. Rundlett is City Engr.

Bids are asked by the Board of Water-Works for furnishing c.-i. pipe, castings, fittings and supplies for the present year. The Board of Water-Works will contract for 20,000 ft. of 6-in. pipe, with the privilege of ordering 10,000 ft. more; 10,000 ft. of 12-in. pipe, with the privilege of ordering 3,000 ft. additional, and will ask options on 1,000 ft. of 8-in. and 2,000 ft. of 16-in. pipe.

SAUK RAPIDS, MINN.—A new water-works system will be constructed. Estimated cost, $20,000.

TORAH, MINN.—It is reported that the city will install a new water-works system.

TECUMSEH, NEB.—It is reported that the City Council is considering building new reservoir.

PIERRE, S. DAK.—Bids are asked by the Commissioners of Indian Affairs, Washington, D. C., until 2 p. m., Feb. 26, for furnishing and delivering materials and labor required for sinking and completing an artesian well, approximately 1,300 ft. deep, at this city.

VIBORG, S. DAK.—It is reported that a municipal water-works system will be constructed. H. C. Christensen and M. V. Olsen have been appointed a committee to inspect water-works systems of adjacent towns.

VELVA, N. DAK.—It is reported that a new water-works system will be erected. Cost, $150,000. G. N. Lindahl is Mayor.

WILLISTON, N. DAK.—Plans, specifications and bidding sheet for constructing canals and ditches, Buford-Trenton Project, are on file at office of Engineering News, New York. Bids are asked until March 5.

GREAT FALLS, MONT.—Bids are asked by the United States Reclamation Service until 2 p. m., March 15, for constructing earth fill dam and accessory structures on Willow Creek, about five miles northwest of Augusta, Mont. The work consists of about 7,500 cu. yds. of open cut excavation, 170,000 cu. yds. of embankment, 620 lin. ft. of lined outlet tunnel, and 130 cu. yds. of reinforced concrete. E. A. Hitchcock is Secy., U. S. Reclamation Service. (Advertised, Engineering News.)

HUNTLEY, MONT.—Plans, specifications and bidding sheets for constructing canals, Shoshone Project, Wyo., are on file at office of Engineering News, New York. Bids are asked until March 12. (Advertised, Engineering News.)

RODGERS, TEX.—The Rodgers Light & Water Co. has been organized by John J. Cox, of Temple, and associates to establish a water-works system in this city. The supply of water will be derived from Little River and will be piped a distance of 4½ miles. Franchises have been secured and work will commence at an early date. Estimated cost of work, $40,000.

SWEET WATER, TEX.—We are officially advised that the O'NEIL ENGINEERING CO., Dallas, Tex., has been awarded contract for installing water-works, electric light plant and ice factory.

AZTEC, N. MEX.—The contract has been let to T. J. LOFTUS, of Durango, Colo., at $62,500, for the entire construction of the Citizens' Irrigating Ditch. Ditch will be 27 miles long and irrigate 6,000 acres of land, and involves 200,000 cu. yds. of excavation, 4,000 ft. of fluming and 1,500 ft. of rock tunnel. Work will be started by Feb. 15. C. E. Spath is Pres., Aztec, New Mex.

CORTEZ, COLO.—The report of the Montezuma Irrigation project has been completed and the matter of securing funds to carry out the work is under way. It will involve the expenditure of $400,000 and irrigate 40,000 acres of land. H. T. Henderson is Consult. Engr.; W. R. Mowrey is Secy., Cortez, Colo.

CHEWELAH, WASH.—It is reported that the City Council contemplates installing municipal water and light plants.

PORT ANGELES, WASH.—On Feb. 15 the electors will vote on the question of authorizing issuing $80,000 in special water bonds for the construction of a new system of water and power works.

FORT FLAGLER, WASH.—CROSS & HALL, of Port Townsend, Wash., have been awarded contract for installing two fire hydrants and necessary extension of pipe line for same. H. G. Millar is Const. Q. M., U. S. A., at Fort Flagler, Wash.

PORTLAND, ORE.—The Secretary of the Interior has awarded contract to THEODORE WEISBERGER, of North Yakima, Wash., for the construction of scheudles 6A and 7A of the main canal, Tieton Project, Wash., at $230,371. The work consists of manufacturing, furnishing, distributing and laying concrete shapes for canal and tunnel laying and for flumes.

CORAM, CAL.—Plans are being prepared by the Balakkala Consolidated Copper Co., of Coram, Cal., for constructing new water-works system in the new town sites.

SACRAMENTO, CAL.—Bids are asked until 8 p. m., Feb. 11, for furnishing 60 pieces of 10-in. pipe, 12 ft. long, exclusive of hub and 235 pieces of 12-in. pipe, 12 ft. long. Pipe is to be used in extending the water distributing system in the city. M. J. Dosmond is City Clk.

SAN FRANCISCO, CAL.—We are officially advised that plans are being prepared for constructing a salt water high pressure fire protection system. Plans are also being prepared for constructing system of 200 cisterns of 100,000 gallons capacity. Estimated cost, $3,000,000. Upon completion of plans, in about three months, a proposition will be submitted to voters to raise necessary funds by bond issue. Thomas P. Woodward is City Engr.

SALT LAKE CITY, UTAH.—Bids are asked by the Board of Public Works until 11 a. m., Feb. 28, for constructing all water mains that have been or may be ordered by the City Council for a term of one year from Oct. 31, 1906. F. J. Leonard is Chn. Bd. Pub. Wks. (Advertised, Engineering News.)

Bids are also asked until 11 a. m., Mar. 7, for constructing new water supply mains. (Advertised, Engineering News.)

BULL FROG, NEV.—It is reported that water-works system will be constructed in Greenwater and Bull Frog and a reservoir will be constructed on the Funeral Range.

ATHOL, IDAHO.—The City Council has decided to install water system. Cost, $12,000. James Stephenson, Jr., is State Engr., at Boise, Idaho.

PARRSBORO, N. S.—It is reported that bids will be asked in March for extending the water supply system. Estimated cost, $10,000. W. B. King is Town Clk.

FORT WILLIAM, ONT.—We are officially advised that bids received Dec. 22, 1906, for constructing Section 3 of the Loch Lomond water supply system have been rejected. The Commissioners have instructed the Engineer to proceed with the work. H. S. Hancock, Jr., is Town Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

HARTFORD, CONN.—The City Council has directed construction of 10-in. sewer in Camp Field Ave., and 12-in. vitrified tile sewer in Edgewood St. Thomas L. Ford is City Engr.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Feb. 18, by John F. Ahearn, Pres. Boro. of Manhattan, for constructing sewer and appurtenances in 125th St., between Broadway and Claremont Ave.

BUFFALO, N. Y.—Bids are asked until Feb. 15, by the Comr. of Public Works, for constructing 4¼, 4, 3¾, 3½, 3¼, 3 and 2-ft. sewers in Elmwood Ave. Length, 3,964 ft.

ELIZABETH, N. J.—It is reported that an intercepting sewer will be constructed in Bridge St. in connection with the improvement of Elizabeth River. William H. Luster, Jr., is City Surv.

JERSEY CITY, N. J.—The Street and Water Board has awarded contract to HENRY WADDINGTON, Hoboken, N. J., for constructing sewer in Morgan St., from Henderson to Warren Sts. Charles Van Keuren is Ch. Engr. St. and Water Bd.

McKEES ROCKS, PA.—SHEETS & BRYAN of this borough have been awarded contract for constructing 1,180 ft. of 12-in. sewer on Holmes, Wright and Rosamond Sts., with all the necessary manholes, sewer drops, etc. J. P. Gillen is Bor. Clk.; S. L. Gardner is Bor. Engr.

SAYRE, PA.—It is reported that a public sewer will be constructed beginning at the west bank of the Susquehanna River about 800 ft. south of the Sayre Water Co.'s pumping station, and extending westerly over the lands of the Consolidated Real Estate Co. and the Lehigh Valley R. R. Co. to Lehigh Ave.; thence northerly on Lehigh Ave. to Hayden St.; thence westerly on Hayden St. to Desmond St.; thence northerly on Desmond St. to Lehigh Ave.; thence northwesteriy on Lehigh Ave. to Cayuga St.; thence westerly on Cayuga St. to Wilbur Ave. H. H. Mercereau is Clk. Sayre Boro. Council.

ALIQUIPPA, PA.—Contract for constructing 1,262 ft. of 36-in. 2-ring brick sewers has been let to IRA W. LOGAN & CO., Rochester, Pa. W. D. Craig is Boro. Secy.; Michael Baker is Boro. Engr., at Beaver, Pa.

WILMINGTON, DEL.—The Directors of the Street and Sewer Department have instructed Alexander J. Taylor, Engr. Sewer Dept., to estimate cost of constructing sewer to connect with sewer at 14th St. and Woodlawn Ave., and to extend out Pennsylvania Ave., for the accommodation of several properties on Pennsylvania Ave. and Rising Sun Lane.

WINCHESTER, KY.—William A. Wheeler, C. E., 14 Beacon St., Boston, Mass., has been commissioned to draw plans and specifications for constructing sewerage system. S. H. Rutlidge is Resident Engr.; Dr. J. L. Webber is Chn. Sewer Comrs.

AKRON, OHIO.—The contract for constructing Hickory St. sewer has been awarded to HUNT & WIGLEY, at $15,353. Bids were also submitted by the following: Hallinan Bros., $22,037; McGarry & McGowan, $15,907, and McAlonan Bros., $22,652. J. W. Payne is City Engr.

M. H. O'TOOLE has been awarded contract for constructing sanitary sewers in Miller and Jefferson Aves.

CINCINNATI, OHIO.—M. J. Connolly, 400 Culvert St., was lowest bidder for constructing 3,782 lin. ft. of 12, 15, 18, 21 and 24-in. pipe sewers in Glenway and Winfield Aves. (average cut, 10 ft.), at $11,234. Bids were received by Board of Public Service Jan. 25. M. J. Keefe is Clk. Bd. Pub. Service; C. N. Dannenhower is City Engr.

ELYRIA, OHIO.—The City Council has passed an ordinance providing for the construction of sewers in District No. 2. Frank R. Fauver is Clk.

FINDLAY, OHIO.—The Board of Public Service has awarded contract to JAMES BUTLER for construction of 10-in. sewer in Cherry St. J. C. Edie is Clk. Bd. Pub. Service; John W. S. Riegle is City Engr.

HAMILTON, OHIO.—Plans are being prepared by A. L. Dillon, City Engr., for constructing sanitary sewers in Second, Bee, South C and South Second Sts., and in Progress and Hensley Aves.

SPRINGFIELD, OHIO.—The Board of Public Service has directed W. H. Sieverling, City Engr., to prepare plans, specifications and estimates for construction of high and lower level sewers, the Indian Run intercepter, and the outfall sewer, and for constructing a storm sewer to drain Rice St. and vicinity.

URBANA, OHIO.—It is reported that the city will improve and extend the present sewer system.

YOUNGSTOWN, OHIO.—Frank Lillie, City Engr., has prepared plans for constructing sewers in the Riverview district, including Hezlep St., Central Ave., Caldwell St., Parkwood St., and intersections.

KENDALLVILLE, IND.—Plans have been prepared by G. W. Sturdevant, of Chicago, for constructing sewer system. Robert L. Barr is City Clk.

RUSHVILLE, IND.—The City Council has ordered A. L. Stewart, City Engr., to prepare plans, specifications and profiles for constructing complete sewer system. Estimated cost, $65,000. Bids will be asked about Feb. 15.

MARQUETTE, MICH.—A new trunk sewer is to be constructed in the northern part of the city.

MUSKEGON, MICH.—Contract for constructing Spring St. sewer has been let to W. R. JONES, Muskegon, at $48,685. P. P. Misner is City Recorder.

EAST ST. LOUIS, ILL.—We are officially advised that bids were received Jan. 28 by Board of Local Improvements, for constructing sewers in 13th St. with (a) and without (b) paving, as follows: M. J. KEELEY, East St. Louis, Ill. (awarded contract), (a) $43,176, (b) $15,771; Walter Coonan, (a) $44,254, (b) $16,483; B. M. Sweeney, (a) $46,202, (b) $18,432, and W. H. Hill, (a) $44,078, (b) $16,673. E. Eggmann is Clk., Bd. Local Impvts.

KEWANEE, ILL.—FRANK SHIRK has been awarded contract for constructing 330 lin. ft. of 10-in. sewer in Short Eighth St., from College to Davy Sts. The tile will be furnished by the city, and contractor will do the work without charge to the city.

MOLINE, ILL.—The Board of Local Improvements has instructed Clark G. Anderson, City Engr., to prepare plans and estimates for constructing new sewers.

WAVERLY, IOWA.—It is reported that an 8-in. sanitary sewer will be constructed in West Water St. F. H. Munger is City Clk.

WEBSTER CITY, IOWA.—Plans are being considered by the city for construction of sewer on Walnut St. Cost, $10,000.

COLERAINE, MINN.—Plans are being prepared for constructing sewer and waterworks plants. Duluth Engineering Co., Duluth, Minn., are Engrs.

HASTINGS, MINN.—Bids are asked until 8 p. m., Feb. 25, for furnishing materials and constructing sewers and water mains in Tyler, Ramsey, Vermillion, Second, Seventh and Eighth Sts. Charles Hankes is City Clk.

ST. PAUL, MINN.—NICHOLAS FEYEN has been awarded contract for constructing sewer in Page St. from State St. to Oakdale Ave., and in Oakdale Ave. from Page St. to the city limits, at $7,211. The contract for constructing sewers in Western Ave. from Van Buren to Blair Sts., and in Blair St. from Western Ave. to Mackubin St., has been awarded to D. W. MOORE, at $3,499. All bids received for constructing sewers in Aldine St. from Selby to Marshall Aves., and in Marshall Ave. from Snelling to Wheeler Aves., have been rejected. New bids will be asked for soon. Estimated cost, $31,134. L. E. Rundlett is City Engr.

HIAWATHA, KAN.—Plans for constructing a vitrified pipe sewer system for this city are being prepared by W. B. Hazen, Engr., at St. Joseph, Mo. Estimated cost, $75,000.

WICHITA, KAN.—Contract for constructing a sewer in sanitary sewer dirstrict No. 6 has been let to C. A. BAKER, Wichita. R. N. Dorr is City Clk.

CARTHAGE, MO.—Bids are asked by the City Clerk until 5 p. m., Feb. 11, for construction of 410 ft. of 10-in. and 3,800 ft. of 8-in. vitrified pipe sewer. William Kohlman is City Engr.

SEDALIA, MO.—It is reported that several new sewers will be constructed.

ST. LOUIS, MO.—It is reported that a sewer will be constructed from the River des Peres northwardly on Tennessee Ave. to Steins St., thence eastwardly on Steins St. to Alabama Ave., thence northwardly on Alabama Ave. to the right-of-way of the public sewer in city block No. 1368, thence east and north in the right-of-way to Robert Ave. The sewer will drain an area of 1,803 acres, and will be known as the Glaise Creek sewer. Estimated cost, $100,000. H. R. Fardwell is Sewer Comr.

VAN BUREN, ARK.—The following bids were received for constructing a sanitary sewer system in this city: PRATHER CONSTRUCTION CO., Van Buren, Ark. (awarded contract), $10,338; Southern Construction Co., Pine Bluff, Ark., $10,485; Pencey Paving & Construction Co., Helena, Ark., $10,967; J. B. Knowles, Kansas City, Mo., $11,750; Municipal Construction Co., Kansas City, Mo., $11,995; Bruce Bros., Fort Smith, Ark., $11,995; Bruce Bros., Fort Smith, Ark., $17,104. The district includes 60 city blocks, and work is to be completed by June 10.

SEATTLE, WASH.—See under Streets and Roads.

SALT LAKE CITY, UTAH.—Bids are asked by the Board of Public Works until 11 a. m., Feb. 28, for constructing all pipe sewers that have been or may be ordered by the City Council for a term of one year from Oct. 31, 1906. F. J. Leonard is Chn. Bd. Pub. Wks. (Advertised, Engineering News.)

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

ALBANY, N. Y.—The Board of Contract and Supply has awarded contract for removal of street dirt for the ensuing year to JOHN C. WASSERBACH, at $11,500. Isidore Wachsman is Clk. Bd. of Contract and Supply.

NEW YORK, N. Y.—Bids are asked by M. Craven, Comr. of Street Cleaning, until noon, Feb. 25, for the final disposition of garbage and kindred refuse of the Borough of Brooklyn, for the period of five years beginning Sept. 1, 1907. (Advertised, Engineering News.)

NORFOLK, VA.—The Board of Control has requested the Universal Destructor Co. to submit plans and specifications, with bid, for enlarging and improving the crematory. The Meldrin destroyer is favored. An appropriation of $20,000 has been asked. L. W. Tazewell is Chn. Finance Com. W. T. Brooke is City Engr.

PENSACOLA, FLA.—Bids were received by Bureau of Yards and Docks, Navy Dept., Washington, D. C., Jan. 26, for constructing garbage incinerating furnace, stack and building at Navy Yard, Pensacola, Fla., from the following: The Morse-Boulger Destructor Co., 39 Cortlandt St., New York; Lewis & Kitchen, 433 Wabash Ave., Chicago, Ill., and Dixon Garbage Crematory Co., 1001 Spitzer Bldg., Toledo, Ohio. Mordecai T. Endicott is Ch. of Bureau, at Washington, D. C.

BIRMINGHAM, ALA.—The City Council is planning to construct a crematory. Estimated cost, $30,000. C. C. Heidt is Chn. Police and Sanitation Com. Julian Kendrick is City Engr.

HATTIESBURG, MISS.—It is reported that a crematory will be constructed. J. D. Donald is Mayor.

ST. LOUIS, MO.—The propositions submitted to the Board of Public Improvements on Jan. 25 for garbage disposal were not sufficiently definite for the Board to act upon, and specifications will probably be prepared and new bids called for.

SEATTLE, WASH.—An ordinance authorizing the Board of Public Works to acquire detail drawings and patent rights for and to proceed to erect a Meldrin Simplex destructor for the city and appropriating the sum of $51,657 therefor, has been introduced to the Council and referred to the Finance Commitee for approval. R. H. Thomson is City Engr.

EL PASO, TEX.—It is reported that the City Council favors constructing a garbage crematory. J. M. Badger is Chn. Sanitary Com.

OTTAWA, ONT.—See under Streets and Roads.

STREETS AND ROADS.

EAST BOSTON (Boston post-office), MASS.—It is reported that Bayswater St. will be improved. Cost, $11,650. William Jackson is City Engr.

LYNN, MASS.—It is reported that $250,000 will be spent on constructing roads and sidewalks. George I. Leland is City Engr.

NEW BEDFORD, MASS.—It is reported that $100,000 will be expended during the present year for repairing streets and constructing new pavement, mostly macadam. William F. Williams is City Engr.

BROOKLYN, N. Y.—The Boulevard, at Rockaway Beach, west of Remsen Ave., and extending to Rockaway Park, is to be paved with brick, curbed and graded before the summer season opens.

CANANDAIGUA, N. Y.—The main road between Palmyra and Canandaigua has been surveyed to determine grades and levels necessary for constructing new roadbed.

SYRACUSE, N. Y.—The Board of Contract and Supply Jan. 28 awarded contract for paving Townsend St., from Hawley Ave. to Burnet Ave., to SAMUEL BONN, 654 Burnet Ave., at $3,373. F. J. Schnauber is City Engr.

GREENSBURG, PA.—Bids are asked by Board of County Commissioners, until about Feb. 15, for constructing macadamized road. D. W. Shupe is Pres. Bd. County Comrs.

WILLIAMSPORT, PA.—Bids are asked until Feb. 11, for constructing an under-grade crossing under the Peoria & Eastern Ry. tracks at Campbell St. The work consists of the following approximate quantities: 435,000 lbs. of steel, 1,070 cu. yds. concrete, 220 ft. of 4-ft. sewer, 100 ft. of 15-in. sewer, 2 manholes, 14,000 sq. ft. cement sidewalk, 400 ft. drain tile, 400 sq. yds. brick pavement, 500 cu. yds. excavation, 220 ft. dressed stone and 20 blocks cut stone. J. J. Galbraith is City Clk.; James J. Fisher is City Engr.

UNIONTOWN, PA.—It is reported that about ten miles of macadam road will be constructed in the near future. M. E. Townsend is Pres. Bd. County Comrs.

WASHINGTON, D. C.—Pennsylvania Ave. will be resurfaced with asphalt from 4½ to 15th Sts. Henry B. F. MacFarland is Pres. District Comrs., District Bldg., Washington, D. C.

LEXINGTON, N. C.—The city has authorized issuing $40,000 in bonds for street paving.

ATLANTA, GA.—Bids are asked by the Mayor and General Council, until Feb. 18, for furnishing material and setting concrete curb, brick, tile and sheet-cement sidewalks, manhole and catch-basin covers for sewers, cement for sewer work and vitrified pipe during 1907. R. M. Clayton is City Engr.

JACKSONVILLE, FLA.—The Board of Public Works Jan. 28 awarded contract for laying sidewalks on Riverside Ave., from Lomax to King Sts., and on Stockton St., from Riverside Ave. to Park St., to the SOUTHERN FUEL & SUPPLY CO., at $1.25 per sq. yd. for cement-concrete sidewalks and $1 per sq. yd. for tile walks, and 10 cts. per lin. ft. extra for curbing. Philip Prioleau is City Engr.

BESSEMER, ALA.—We are officially advised that bids were received Jan. 29 by the Mayor and Board of Alderman for constructing 12,000 sq. yds. of 5-ft. cement sidewalks on various streets. Wearing coat to be 1 in. thick on 4-in. concrete foundation. The Crocket Paving Co., Birmingham, Ala., was lowest bidder, at 89¾ cts. per sq. yd., total bid, $10,770. Bids were submitted by J. N. Bigler, Bessemer, Ala.; Pouncey Paving & Construction Co., Helena, Ark.; W. R. Thomas, Gainesville, Fla., and William T. Bowe. Wm. Hugh McEniry is City Engr.

MONTGOMERY, ALA.—MITCHELL BROS. have been awarded contract for gravelling 4½ miles on the Woodley Road, beginning near the city limits, at $10,318. Allen R. Gilchrist is City Engr.

NEW ORLEANS, LA.—W. J. Hardee, City Engr., has recommended for acceptance the bid of the Southern Bitulithic Paving Co., Nashville, Tenn., for paving Prytania St., at $58,335, and the bid of the same company for paving Duamine St., at $32,825.

LOUISVILLE, KY.—Bids are asked by Board of Public Works, until Feb. 20, for grading and paving nine alleys with vitrified block pavement. Estimated cost, $18,000. J. P. Claybrook is City Engr.

It is reported that the Board of Park Commissioners has decided to spend about $12,000 in completing the driveway near the Ohio River, from High to Market Sts.

BARBERTON, OHIO.—Plans are being prepared by Harry Alcorn, City Engr., for paving Cornell St. Estimated cost, $19,000.

COLUMBUS, OHIO.—Sam Huston, State Highway Comr., will receive bids as follows for four highways proposed under the new Ohio law, for letting at the following places and dates: Athens, Ohio, Feb. 21; Painesville, Lake County, Feb. 26; Canton, Stark County, Feb. 27; and at Ravenna, Portage County, Feb. 28. Specifications will be forwarded to contractors upon request.

CINCINNATI, OHIO.—William P. Flyn, 1252 Chase St., was lowest bidder for paving with brick 4,110 sq. yds., with concrete foundation, and 2,400 lin. ft. of sandstone curb, on Cherry St., at $9,113. A. J. Henkel, 703 Mercantile Library Bldg., was low bidder for paving with granite 13,030 sq. yds., with grading, etc., on Colerain Ave., at $57,624. The Barber Asphalt Paving Co., 1608 First National Bank Bldg., was low bidder for paving with asphalt 5,500 sq. yds., with concrete foundation and 3,150 lin. ft. of granite curb on Poplar St., at $13,709. Bids were received by Board of Public Service. M. J. Keefe is Clk. Bd. Pub. Service. C. N. Dannenhower is City Engr.

CHAGRIN FALLS, OHIO.—Bids are asked until noon, Feb. 18, for grading, draining, curbing and paving with 4-in. paving brick Franklin Ave., from Pearl St. to the corporation line. H. D. Bishop is Village Clk.

DAYTON, OHIO.—The Board of Public Service has awarded contracts to W. J. KERNAN and the J. E. CONLEY PAVING CO., for new paving.

EAST LIVERPOOL, OHIO.—The State Highway Commissioners have recommended the improvement of Hill Road to Wellsville by the construction of a 14-ft. brick pavement. Cost, $9,000. R. G. Boyd is Clk. Bd. of Comrs.

GLANDORF, OHIO.—It is reported that Main St. will be improved. Estimated cost, $9,000.

HAMILTON, OHIO.—A. L. Dillon, City Engr., has been instructed to prepare plans for paving Sycamore and Seventh Sts. with sheet asphalt, brick or bituminous macadam.

ST. CLAIRSVILLE, OHIO.—Bids are asked until noon, Mar. 1, for grading, curbing and paving Main St. with vitrified paving brick or block. John C. Nichols, Village Clk. Specifications are on file at office of Engineering News in New York and Chicago. (Advertised, Engineering News.)

PAINESVILLE, OHIO.—Plans and specifications for paving Mentor Ave., from Jefferson to Hayes Sts., are being prepared by H. P. Cummins, City Engr. The work includes about 9,000 sq. yds. of paving.

WOOSTER, OHIO.—The County Commissioners have approved plans and specifications for constructing new macadamized road in Wayne Township. Estimated cost, $7,100.

YOUNGSTOWN, OHIO.—It is reported that Boardman St. will be widened and paved. F. M. Lillie is City Engr.

ZANESVILLE, OHIO.—The Board of Public Service has awarded contract for paving Cedar Ave., Taylor and Clegg Sts., to W. J. KERNAN, at $14,959. The J. E. CONLEY CO. has been awarded contract for Paving Germantown and East Third Sts., at $27,363. The CAIN CONSTRUCTION CO. ha been awarded contract for paving McLain St., at $17,906. E. H. Smith is City Engr.

ELKHART, IND.—Bids are asked by the Board of Public Works, until 10 a. m., Feb. 18, for construction of brick pavement on Harrison St. Estimated cost, $30,476. Thos. G. Wilkinson is Clk., Bd. Pub. Wks.; A. M. Smith is City Engr.

FLORA, IND.—It is reported that the Board of Public Works will pave South Center St. with brick on concrete foundation.

GOSHEN, IND.—Bids are asked until 7.30 p. m., March 4, for constructing six blocks of brick pavement with combination curb and gutter. C. C. Witt is City Engr.

JEFFERSONVILLE, IND.—Victor W. Lyon, City Engr., is preparing plans for constructing two miles of brick paving.

PETERSBURG, IND.—Bids are asked by the County Commissioners, until Feb. 12, for constructing eight miles of gravel road in Madison Township. F. R. Bidderback is County Audr.

TERRE HAUTE, IND.—Bids are asked by the County Commissioners, until 11 a. m., Feb. 23, for constructing roads in Prairie Creek and Fayette Townships. G. W. Denehie is County Audr.

DONN M. ROBERTS has been awarded contract for paving the Macksville grade.

GLENCOE, ILL.—The Chicago, Milwaukee Electric R. R. Co. will pave with asphalt streets in this village. F. J. Geraghty is Ch. Engr., at Highwood, Ill.

OAK PARK, ILL.—Bids are asked until Feb. 19, for constructing one mile of granite-top macadam pavement, 30 ft. wide, with combined concrete curb and gutter, on Randolph St. B. C. Brandstadt is Secy.

OTTAWA, ILL.—The Board of Local Improvement is reported to have passed a resolution authorizing paving various streets with asphalt in East Ottawa. Estimated cost, $109,000. Charles F. Wilson is City Engr.

JEFFERSON, WIS.—Bids are asked until 2 p. m., Feb. 21, for paving and improving various streets.

RACINE, WIS.—Bids are asked by the Board of Public Works, until Feb. 23, for paving with brick about 11,594 sq. yds. on 14th St. P. H. Connolly is City Engr.

CEDAR RAPIDS, IOWA.—It is reported that various streets will be improved and sewers laid during the present year.

CLINTON, IOWA.—It is rep[illegible] that bids are asked until Feb. 12, by H[illegible] Van Meter, City Clk., for grading, cu[illegible] and macadamizing portion of Third A[illegible] Charles P. Chase is City Engr.

OSCEOLA, IOWA.—It is re[illegible] that the City Council has ordered the p[illegible]al streets paved with brick.

SHENANDOAH, IOWA.—It i[illegible]orted that Clarinda Ave. will be paved.

WICHITA, KAN.—Bids are [illegible] until 5 p. m., Feb. 18, for paving [illegible] vitrified brick various alleys. R. N. [illegible] is City Clk.; A. Brown is City Engr.

DALLAS, TEX.—Bids are as[illegible]ntil Feb. 12, for paving portion of Colu[illegible] Ave. with bitulithic pavement. E. L. [illegible] is City Engr.

CULLUM BROS. have been [illegible]ded contract for construction of Gran[illegible]airie and Cedar Hill Road.

EL PASO, TEX.—Bids are as[illegible]ntil Feb. 14, for paving alleys in Pavin[illegible]trict No. 1. George C. Wimberly is Cit[illegible]gr.

TYLER, TEX.—Bids are ask[illegible]til noon, Feb. 25, for paving Ferguson S[illegible]rom College to Spring Sts., Spring St. [illegible] Ferguson to Erwin Sts., Erwin St. [illegible] Spring to College Sts., and College St. [illegible]m Erwin to Ferguson Sts., aggregating [illegible]ut 12,000 sq. yds. of paving. Bids will [illegible] received for the following classes of pave[illegible]t: Vitrified brick on concrete base, [illegible]lithic on concrete base, and bitulithic on [illegible]tuminous base. John H. Bonner is Mayor.

BARTLESVILLE, OKLA.—All bids received Jan. 29 for constructing a[illegible]ut 16,000 sq. yds. vitrified brick paving h[illegible] been rejected. New bids are asked by William T. Sidell, Mayor, until 7 p. m., Feb. [illegible] W. H. Whaley is City Engr.

ENID, OKLA.—Contract for br[illegible]k paving between tracks of street railway has been let to CLEVELAND-TRINIDAD PAVING CO., Rose Bldg., Cleveland, Ohio.

OKLAHOMA CITY, OKLA.—The PARKER-WASHINGTON CO., St. Louis, Mo., has been awarded contract for paving 28 blocks with asphalt, at $2.12 per sq. yd. W. C. Burke is City Engr.

TACOMA, WASH.—J. P. STOLL has been awarded contract, at $3,799, for grading K St. from South 48th to 56th Sts., L. I. D. No. 366. Frank L. Davis is City Engr.

SEATTLE, WASH.—Bids are being received by C. B. Bagley, Secy. Bd. of Pub. Works, for regrading Jackson and other streets. This project consists of regrading four parallel streets, together with the intersecting cross streets, which form sort of a saddle, separating the main business portion of the city from the large suburban residence district. The maximum cut involved is about 90 ft. In addition to the regrading of the streets and avenues in this district, the contract will provide that the owners of property within this district may have their lots excavated to the street grade by the contractor for the public portion and at the same price. The amount of earth to be removed from the private property is about 1,400,000 cu. yds. The estimated cost of the public portion is $450,000. The following is a list of quantities to be bid upon: Fixed estimate, $10,000; clearing and grubbing, lump sum; earthwork, excavation, 1,770,000 cu. yds.; earthwork, embankment, 1,363,000 cu. yds.; retaining walls, concrete, 600 cu. yds.; iron railing, 500 lin. ft.; bulkheads, piling, 50,000 lin. ft.; lumber, 500 M. ft. B. M.; iron, 200,000 lbs.; oak blocks, 1,500; lumber, new, 100 M. ft. B. M.; relaying old lumber, 100 M. ft. B. M.; sewer box, 10,000 lin. ft.

The following bids were received by Board of Public Works for improving First Ave. from Pine St. to Denny Way, by constructing concrete sidewalks: T. Ryan, $20,997; Hans Pederson, $20,977; Sparger Concrete Co., $21,656; Coast Concrete Co., $21,159; Allan & Kelty, $22,246. Improving Fourth Ave. from Washington to Main Sts., by constructing brick pavements, etc.; H. F. Jahn, $10,117; T. Ryan, $9,185; Sparger Concrete Co., $10,749. Improving 32d Ave. and other streets by constructing water mains: Sanfield & Gifford, $5,157; International Contract Co., $4,963; Stirrat & Goetz, $5,071; T. Ryan, $5,467. Improving 25th Ave. from Yesler Way to East Cherry St. by constructing water mains: Sanfield & Gifford, $5,477; T. Ryan, $5,839; Stirrat & Goetz, $5,433; International Contract Co., $5,234; P. Malone, $6,451. Improving 26th Ave. from Yesler Way to East Union St. by constructing water mains: T. Ryan, $10,290; Stirrat & Goetz, $9,558; Sanfield & Gifford, $9,648; International Contract Co., $9,211.

SEATTLE, WASH.—Among the larger contracts soon to be let by this city are the following: Fourth Ave., regrading, etc., requiring the excavation of 365,000 cu. yds. of earth, the construction of 9,000 ft. of sewers, varying in size from 12-in. to 2[illegible]-in., the construction of a steel viaduct, carrying Yesler Way over Fourth Ave., which will take about 250,000 lbs. of steel and 8[illegible] cu. yds. of concrete, and 350 piles. The estimated cost of this work is $198,000. The maximum cut is about 28 ft. This project is being carried out for enlarging the business section of the city.

Dearborn St., regrading, provides for the cutting through a sort of saddle, which separates the main business portion of the city from the large suburban residence district. This project calls for the removal of 1,200,000 cu. yds. of earth. There will also be the excavation from private property. The maximum cut will be about 1[illegible] ft., and there will be some fills to be made on adjoining streets and avenues.

Denny-Hill regrade, comprises the regrading of Fourth Ave., Third Ave., Fifth Ave., from Pine St. to Cedar St., and all intersecting cross streets, which are located on an isolated hill, standing in the way of the growth of the business portion of the city. The maximum cut will be about 1[illegible] ft. The amount of excavation in the street portion is 3,650,000 cu. yds. There will be no embankment connected with this excavation, and practically the entire amount will have to be [illegible] of in Elliott Bay. The estimated [illegible] of the public portion of this improvem[illegible] is $700,000.

Pine [illegible] regrade. This portion comprises a num[illegible] of streets and avenues east of the D[illegible] district. There will be about 140,0[illegible] yds. of excavation, and 350,000 cu. [illegible] embankment. The estimated cost [illegible],000.

Oliv[illegible] regrade. This comprises some street[illegible] avenues adjoining the Pine St. distr[illegible] calls for the excavation of 50,-000 [illegible] of earth, and building embankment [illegible],000 cu. yds. The estimated cost [illegible]000. These five projects involve the r[illegible] of nearly 10,000,000 cu. yds. of earth [illegible] material to be removed is of glacial [illegible]in, and varies from sand to blue clay [illegible] will be no solid rock, except boulde[illegible] In addition to these contracts, which [illegible] be let this spring or summer. there [illegible] number of grading schemes for vario[illegible] [illegible] in the suburbs, which probably [illegible] call for the removal of about 1,000[illegible] yds. of earth. R. H. Thomson, City [illegible]

EU[illegible], ORE.—It is reported that during [illegible] present year 41 blocks will be paved in th[illegible] by order of the City Council.

BER[illegible]EY, CAL.—It is reported that Adeline [illegible] will be remacadamized. C. L. Huggi[illegible] City Engr.

ROS[illegible]LLE, CAL.—It is reported that Main [illegible] will be extended.

SALT LAKE CITY, UTAH.—Bids are asked by the Board of Public Works, until 11 a. m., Feb. 28, for constructing all cement sidewalks that have been or may be ordered by the City Council for a term of one year from Oct. 31, 1906. F. J. Leonard is Chn. Bd. Pub. Wks. (Advertised, Engineering News.)

WINNIPEG, MAN.—Bids are asked by the Board of Control, until noon, Feb. 28, for supplying from 3,000 to 5,000 tons of asphalt for street paving. H. N. Ruttan is City Engr. Magnus Peterson is Secy., Bd. of Control. (Advertised, Engineering News.)

OTTAWA, ONT.—The city will spend $25,000 for roadway maintenance; $15,000 for constructing an asphalt plant; $4,000 for concrete and plank sidewalk maintenance; $7,500 for sewer repairs, and $10,000 for constructing macadam roads, during the present year; also $26,000 for a scavenging system. The total outlay for the year on streets and roads, etc., and miscellaneous, is $86,500.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

SPRINGFIELD, MASS.—The plant of the Phelps Publishing Co. will be rebuilt at once. Herbert Myrick is Pres.

WATERTOWN, MASS.—It is reported that a foundry and warehouse, 101 × 182 ft. will be erected by the Walker & Pratt Mfg. Co.

HARTFORD, CONN.—Cheney Bros. probably will begin the construction of a new mill next summer in which to continue the work now being done in the Hartford mill, which has been sold to the New York, New Haven & Hartford R. R. Co. The new mill will be connected with one of the present groups.

WILLIMANTIC, CONN.—Officials of the Windham Mfg. Co., Bridge St., have announced their intention of building an additional mill at their plant on Bridge St. Contractors are now at work drawing up plans for a 4-story brick mill, which will be erected between the old and new mills of the company. As soon as the contract is awarded work on the mill will be started. It will be 35 × 80.

COHOES, N. Y.—It is reported that Fuld & Hatch, Hamilton and Liberty Sts., Albany, intend building a new knitting mill in this city.

UTICA, N. Y.—The Mutual Box Board Co., which was lately incorporated, will erect a plant, 300 ft. long, in West Utica. Capital stock, $100,000. The incorporators are Andrew Frey, Pres., Beecher M. Crouse, Secy., and Quentin McAdams is Gen. Mgr. and Treas. Later on they will erect a building, three or four stories high, 100 × 125 ft.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Feb. 19, by John V. Coggey, Comr., for erecting the proposed annex to workshops at the New York Penitentiary, Blackwell's Island.

POTTSTOWN, PA.—It is stated that the Potts Bros. Iron Co., Pottstown, Pa., will rebuild within a short time on the site lately occupied by the mill recently burned.

COLUMBIA, PA.—A new plant, 60 × 200 ft., will be erected by C. H. A. Dissinger & Bros., of Wrightsville, manufacturers of gas and gasoline engines. The power plant will have a capacity of 50 HP. Cost, $10,000.

FRANKFORD, PA.—Plans have been prepared by Heacock & Hokanson, Archs., Baily Bldg., Philadelphia, Pa., for an addition, five stories high, 120 × 100 ft., to the factory of Miller Lock Co.

JEANNETTE, PA.—It is reported that the Pittsburg Steel Co. will erect a 1-story steel and corrugated foundry, 50 × 120 ft., and 30 × 120 ft. Arthur Peaves, 367 Frick Annex, Pittsburg, is Mgr.

BUTLER, PA.—Plans have been considered by the Western Allegheny R. R. Co. for large shops and other terminal buildings, at Queen Junction, to be used jointly by that road and the Bessemer & Lake Erie R. R. The plans will be completed within the next month. Bids will be invited a short time later. H. T. Porter, Greenville, Pa., is Ch. Engr., W. A. R. R.

PHILADELPHIA, PA.—The Smith, Hardican Co. has obtained a permit to build a 3-story brick factory, 90 × 100 ft., at the corner of 26th and Parrish Sts., for Finnesey & Robler, 27th and Brown Sts. The building, which was designed by Simon & Bassett, will cost $30,000.

Frank Schoble & Co., hat manufacturers, at Ninth and Oxfords Sts., have had plans prepared and will shortly award a contract to WILLIAM STEELE & SONS for erection of an 8-story brick and reinforced concrete factory extending from Tenth to Hutchinson Sts., on the south side of Oxford St. The building will be 138 × 70 ft., and will accommodate several departments of the factory which now have not adequate space.

The plant of the Baldwin Locomotive Works, recently burned, is being rebuilt as rapidly as possible. Alva B. Johnson is a member of the firm.

CHERRYVILLE, N. C.—A 5,000-spindle yarn factory is to be built at Cherryville by the Howell Mfg. Co., which has just been organized. A site has been purchased. A. W. Howell is Pres., A. H. Huss is Secy. and J. C. Ballard is Treas., and the capital stock is $100,000.

LATTIMORE, N. C.—The Pink Mfg. Co. of Lattimore is to add a 4-set equipment to its two-set bagging mill, increasing the daily capacity to 6000 lbs. The company was organized last summer with $50,000 capital.

DAWSON, GA.—Armena Lime Co. has been organized with $15,000 capital stock by John R. Irwin and associates to burn lime, having a daily output of 250 bbls. Operations on plant will not begin before April 1, at which time orders will be placed for buildings and machinery.

ABBEYVILLE, GA.—It is reported that A. B. & G. C. Benedict, of Nashville, Tenn., have bought a tract of timber land in the Ocmulgee River swamp and will erect a plant for the manufacture of furniture, spokes, hubs, axles and plow handles. The investment represents $100,000.

SPRINGFIELD, GA.—The Brinson Mfg. Co. has been organized with George M. Brinson of Stillmore, Ga., Pres., to establish plant for manufacturing creosote out of fat lightwood; also a plant for treating crossties, bridge timbers, piling, telegraph and telephone poles and crossarms. In connection with the plant it is also proposed to install saw and planing mill, dry-kiln and electric-light plant. Capital stock $150,000.

MILLVILLE, FLA.—The German-American Lumber Co. will rebuild sawmill lately burned at a loss of $100,000. The mill building will be 64 × 228 ft. and will be equipped with a double band mill. Daily capacity will be 100,000 feet. Contract for equipment has been awarded and includes two 8-ft. Prescott band mills, two 5-block steel carriages, two heavy-duty wide-gage edgers, one eight-saw floor slab slasher, two trimmer saws and two transfer tables, etc. Power plant will be equipped with 600-HP. Corliss engine and 900-HP. high-pressure boilers with Dutch ovens.

NEW ORLEANS, LA.—Plans are being prepared for a 2-story factory, 296 × 145 ft., to manufacture horse collars and collar pads for Louis P. Rice & Co.

LEESVILLE, LA.—Thomas C. Wingate will establish a stave and hardwood mill with a capacity of 10,000 tight staves and 10,000 ft. hardwood lumber. A building 40 × 150 ft. will be erected. About $25,000 will be invested.

HARMS, TENN.—A cotton mill to cost about $80,000 is to be erected at Harms. About 250 persons will be employed and water power will operate the machines.

COVINGTON, KY.—Bausmith & Drainie, Archs., 603 Johnston Bldg., Cincinnati, Ohio, have prepared plans for a 6-story brick and mill construction tobacco factory, 50 × 180 ft., for the Lovell & Buffington Tobacco Co., 228 Scott St., Covington. Estimated cost, $60,000.

PADUCAH, KY.—It is reported that H. M. Finley, of Leitchfield, Ill., has completed arrangements for the location of glass-bottle factory to cost $100,000.

MIDDLESBORO, KY.—The Welsh Lumber Co., of Welsh, W. Va., will establish branch plant in Middlesboro for the manufacture of sash, doors, windows and other forms of building material, investing about $10,000.

LOUISVILLE, KY.—J. T. S. Brown & Sons, distillers, this city, will erect a distillery in Anderson County, Ky., with capacity of 1,500 bus. grain daily. It will have three stories and will be of concrete construction, fireproof. Cost, $100,000.

YOUNGSTOWN, OHIO.—The Carnegie Steel Co. has broken ground at its Ohio works, Youngstown, for building twelve 50-ton open hearth furnaces, work on which will be pushed as fast as possible.

A factory will be erected in Washington County by the Youngstown Sheet and Tube Co. Estimated cost, $2,000,000. No engineer or architect has been selected.

ALLIANCE, OHIO.—Plans have been prepared for a 1-story brick and steel addition, 100 × 125 ft., to the manufacturing plant of Reeves Bros. Co. George Reeves is Pres.

CINCINNATI, OHIO.—An automobile factory will be erected in Winton Place, by F. C. Miller and H. C. Peters, on two acres of ground on Mitchell Ave. A building will be erected having a total frontage of 1,000 ft. The structure will be constructed to give light on all sides, thereby making it necessary to have an areaway of large size between the four inside walls. The work on the new building will begin within three months.

MISHAWAKA, IND.—Plans have been prepared by R. E. Schutt, Arch., 302 Summers Bldg., South Bend, Ind., for a 1-story reinforced concrete factory, 165 × 260 ft., for the South Bend & Mishawaka Bed Co. Cost, $15,000. G. R. Summers, Notre Dame, Ind., is Pres.

MATTHEWS, IND.—The Armor Steel & Foundry Co. proposes to build and equip a foundry and steel casting plant. William S. Freeman, Pres.

COLUMBUS, IND.—The Columbus Canning Co. is preparing to build a large canning factory. William A. Morris, F. J. Dotty and James Deium, are Dirs.

SOUTH BEND, IND.—The Indiana Hollow Ware & Concrete Co., recently incorporated, will erect and equip a factory for the manufacture of machinery and products. John D. Wiek is Pres.

KOKOMO, IND.—Bids are asked until Feb. 15 for constructing factory for the National Mitten Works, Kokomo. Bids are now being received for excavation. We are officially advised that the building will be constructed of brick and stone, and will cost $5,000. The structure will be 66 × 82 ft., and will have two stories. Joseph Coppage, Kokomo, is Arch.

MOUNT CLEMENS, MICH.—It is reported that the Mount Clemens Brewing Co. is having plans prepared for an ice manufacturing plant to be built in addition to its brewery.

DETROIT, MICH.—Bids will be received at once by Field, Hinchman & Smith, 710 Washington Arcade, for a new factory for the Detroit Drill Co. The factory will be built on Fort St. and it will be 141 ft. long and 40 ft. wide, extending lengthwise along the front of the lot. A power shaft will be run through the center of building and from pulleys hung on this shaft power will be conveyed to the various machines needed, all of which are arranged near windows along the outside wall of the building. The building will be three stories in height. The front will be of pressed brick. The entire cost of the plant, including an automatic sprinkler for protection against fire, will be about $35,000.

Pollmar & Ropes, Cleland Bldg., are preparing plans and specifications for a 4-story brick building for the Detroit Candy Co., to be built on the south side of Gratiot Ave., between Riopelle and Orleans Sts. It will be 47 × 98 ft., of pressed brick and stone, mill construction and will have steam heat throughout. The entire building will be occupied by the company, the first floor to contain the stores and offices, the upper stories to be used for manufacturing.

JOLIET, ILL.—The Champion Machinery Co., Joliet, Ill., has purchased additional property to erect a new foundry for the manufacture of castings for its own use. Work on the new plant will be begun at once.

EAST ST. LOUIS, ILL.—A site has been purchased at East St. Louis by Fairbank & Co., who will erect a paper mill, to cost about $300,000.

CHICAGO, ILL.—The Griffin Car Wheel Co., Pullman, is having plans prepared by Harry E. Stevens, 2146 Monroe St., Chicago, for a manufacturing plant, which will be built on ten acres of land. It will comprise a foundry, 300 ft. square, with walls 16 to 50 ft. high, to have concrete foundation, steel and brick superstructure, and steel roof trusses;a cleaning room of similar construction as the foregoing; a cupola and charging room, 50 × 222 ft., of brick, reinforced concrete and steel construction; three 100-in. cupolas, with reinforced concrete roofs; a 2½-story core room, 59 × 100 ft., with walls 40 ft. high, to have steel trusses and reinforced concrete floors; a machine shop, 2½-story, 40 ft. high, of brick and steel, with steel roof trusses; a carpenter shop, 1-story, 19 × 70 ft., of brick; a store house, 1-story, 28 × 111 ft., of brick and mill construction; five molding sand sheds, five coarse sand sheds and two wood sheds, each 1-story, 19 × 70 ft.; 14 coke bins, 19 × 64 ft. each; 20 scrap bins, each 19 × 64 ft., of wood and iron; manganese shed, 20 × 30 ft.; fire brick shed, 19 × 70 ft.; two sea coal sheds, each 19 × 72 ft.; cleaning room platform, 19 × 300 ft.; machine shop platform, 18 × 50 ft., and old wheel platform, 90 × 400 ft.; all of concrete and mill construction; a 2-story office building, 30 × 62 ft., of common brick, with composition roof, steel interior, Georgia pine finish, maple floors, steam heat, wiring for electric light, to contain a vault, 15 × 30 ft., and 1-story gateman's and time clock shed of brick. All the buildings will have gravel roofs. The plant will be one of the most conveniently arranged and substantial of its kind. It will cost, with equipment, about $1,000,000.

BELOIT, WIS.—Slater & Marsden, manufacturers of agricultural and woodworking machinery, contemplate building a 50 × 90 ft. addition to their present plant, work upon which will be begun about May 1.

MILWAUKEE, WIS.—It is reported that Pawling & Harnischfeger, Milwaukee, will begin work shortly on a 100 × 355 ft. extension to the main building of their works to provide increased facilities for the electrical and machine departments, the assembling and erecting floors and the girder shop, that are necessary for crane construction.

PORTAGE, WIS.—It is reported that the Wisconsin Portland Cement Co. is having plans drawn by Dugald C. Jackson, University of Wisconsin, Madison, for a cement manufacturing plant, which it is to build north of Portage. The mill and the machinery to equip it will cost about $400,000.

INDEPENDENCE, KAN.—We are officially advised that the Central Portland Cement Co. has awarded the engineering contract for the erection of its plant at Portland Center, Montgomery County, Kan., to the OSBORN ENGINEERING CO., of Cleveland, Ohio. The company expects to be producing 2,000 bbls. of Portland cement daily before Jan. 1, 1908. Estimated cost, $2,000,000.

LOGAN, MONT.—It is reported that the Union Portland Cement Co., of Ogden, Utah, will erect a $1,000,000 cement plant, four miles north of Logan. James Pingree, of the Pingree National Bank of Ogden, Utah, and treasurer of the Union Portland Cement Co., has been appointed manager in full control of the Montana company, which will be known as the Acme Portland Cement Co.

ST. LOUIS, MO.—It is reported that plans have been prepared by J. L. Wees, Arch., 520 Olive St., for remodeling and building an addition to the factory of the St. Louis Brass Mfg. Co., 1112 Market St. Cost, $25,000.

Widman & Walsh, Archs., 105 North Seventh St., have prepared plans for an 8-story stockhouse to be erected for the Anheuser-Busch Brewing Association at Ninth and Pestalozzi Sts. Cost, $1,500,000.

HUNTSVILLE, TEX.—The Huntsville Cotton Oil Co. has awarded contract to the MURRAY GIN CO. for the installation of modern plant with a capacity of 125 bales daily to be completed in time for next season.

BEAUMONT, TEX.—It is reported that a $100,000 company is being organized for establishment of plant to manufacture logging cars and railway freight cars. B. J. Cobb of Marshall, Texas, is said to be interested.

According to reports Beaumont Ice, Light & Refrigerating Co. will erect a 1-story brick building with ice-storage vaults, replacing wooden structure. About $15,000 will be expended. F. W. Steinman is Arch.

STAMFORD, TEX.—The Stamford Steam Laundry will be established by B. G. Wallace & Sons, P. O. Box 94. They will erect a main building 50 × 120 ft. with boiler-room 20 × 50 ft., to cost about $10,000, and the laundry equipment, to cost about $5,000, has been contracted for. Wallace & Sons contemplate equipping the plant with electrical power and invite advices as to the installation. They want particulars as to the best system to be used for operating the machinery for laundering and for lighting and heating the building. This structure will be ready for use by April 1.

PORTLAND, ORE.—The Columbia Milling Co. will erect a $25,000 flour and cereal mill on East Taylor St., which will have a capacity of 500 bbls. a day.

QUEBEC, QUE.—A modern brewery will be erected here in the spring by a syndicate of capitalists headed by M. Gauvin, of Amvot & Gauvin.

MONTREAL, QUE.—Contract for constructing the cement factory of the Fordwick Co., on the outskirts of this city, has been awarded to the CANADIAN WHITE CO. The plant will have a capacity of 800,000 bbls. The works will use about 2,500 HP., and will take current from the Shawinigan power plant, 80 miles from Montreal. The property of the Fordwick Co. is about two miles in length by 600 ft. in width, along the St. Lawrence River. W. S. Barstow & Co., 56 Pine St., New York, are Electrical Engrs.

TORONTO, ONT.—The Canadian Northern Ry. Co. has purchased 110 acres on the Don Flats, on which to erect roundhouses, car shops, repair sheds, cold storage plants, etc. A. Shields is Master Mechanic, Winnipeg, Man.

PORT ARTHUR, ONT.—The Grand Trunk Pacific Ry. Co. has awarded contract for the erection of a 10,000,000-bushel grain elevator here to BARNETT & McQUEEN. A. C. Dennis is Div. Engr.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DITCHES.—Fort Dodge, Iowa.—Bids are asked by H. S. Holm, County Audr., until 2 p. m., Feb. 21, for constructing drains and ditches.

CEMENT.—Portage la Prairie, Man.—Bids are asked by F. W. Clayton, Secy. and Treas., until Feb. 15 for the supply of 2,000 or 3,000 bbls. of best Portland cement.

REMOVING SUNKEN TUG.—Ottawa, Ont. —Bids are asked by F. Goudereau, Deputy Minister of Marine and Fisheries, until Feb. 15 for removal of tug "Castle" now lying in the Detroit River.

TOILET TOWERS.—New York.—Bids are asked until 2.30 p. m., Feb. 11, by Robert W. Hebberd, Comr. Dept. of Charities, for erection and completion of five toilet towers on Randall's Island.

RUBBLESTONE.—Boston, Mass.—Bids are asked until noon, Feb. 28, for delivery of rubblestone in north jetty at Newburyport Harbor, Mass. Maj. Edward Burr, U. S. Engrs. (Advertised, Engineering News.)

SPILLWAY DAM.—San Francisco, Cal.—Specifications are on file at office of Engineering News, New York, for enlarging spillway and building portion of dam known as the Barrier, Yuba River. Bids are asked until Feb. 8.

METAL WORK.—Baltimore, Md.—Bids are asked until noon, Feb. 20, for metal work for the Ragged Point light-house, Potomac River. Lieut.-Col. R. L. Hoxie, Corps. Engrs., U. S. A., Engr. (Advertised, Engineering News.)

LIGHT TOWERS.—Buffalo, N. Y.—Bids are asked until noon, Feb. 14, at the office of the Light-House Engineer, Buffalo, for building four frame towers for the Strawberry Island Channel and Cut Ranges light-stations, Niagara River, N. Y.

GRANITE.—Vallejo, Cal.—PERNU & WISKMAN, of Sacramento, Cal., have secured the contract for granite at Mare Island Navy Yard, amounting to about $35,000. It is reported that the granite is to be used in the construction of the dry dock.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until 10 a. m., Feb. 12, by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing a quantity of naval supplies at various naval stations. E. B. Rogers is Paymaster-Gen.

PIER HEAD.—Hamilton, Ont.—Bids are asked by Fred. Gelinas, Secy. of Public Works, until Feb. 22 for construction of a pier head at the Channel, near Hamilton, according to plans to be seen at the office of J. C. Sing, C. E., Confederation Life Bldg., Toronto.

WHARF.—New Orleans, La.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the PENN BRIDGE CO., Colorado Bldg., Washington, D. C., contract for removing old and constructing new wharves at the Naval Station, New Orleans, at $59,636. Bids were opened Jan. 19.

TUNNEL ENTRANCES.—Boston, Mass.—We are officially advised that Coleman Bros., 15 Court Sq., Boston, have been awarded contract, at $20,592, by the Boston Transit Commission, for constructing entrances and exits for the Washington St. tunnel station near Old South Meeting House. B. Leighton Beal is Secy.

MASONRY CHANNEL.—Waterbury, Conn.—Bids are asked by Board Public Works, until 8 p. m., Feb. 19, for constructing masonry channel for Little Brook, the work including 156 lin. ft. 5 × 5 ft. masonry channel, 530 lin. ft. 12-in. tile drain, 70 lin. ft. 10-in. tile inlet connections, three manholes and four inlets. R. A. Cairns is City Engr.

ORDNANCE.—Washington, D. C.—Bids are asked by the Bureau of Ordnance, War Dept., Washington, until Feb. 14, for furnishing 14 sets of hardened protective shields for 3-in. field gun carriage, model 1902, and 120 sets of the same for 3-in. field caisson, model 1902; Feb. 21, for furnishing 20 forgings for 75 M.M. sub-calibre gun.

MACHINE TOOLS.—Vallejo, Cal.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., Feb. 19, to furnish at the Navy Yard, Mare Island, Cal., a quantity of machine tools, etc., as follows: Electric traveling crane, engine lathes, turret lathe, sprue cutter. E. B. Rogers is Paymaster-Gen.

DREDGING.—New York, N. Y.—The following bids were received Jan. 28 by J. A. Bensel, Comr. Docks and Ferries, for dredging about 200,000 cu. yds. on the North River (bids given per cu. yd.): E. Sanford Ross, 22.8 cts.; Henry Du Bois Sons Co., 17 State St., 16 cts.; R. G. Packard Co., 130 Pearl St., 22 cts.; Seeley-Taylor Co., 78 Broad St., 27.75 cts.; W. H. Beard Dredging Co., 21 State St., 18 cts.

BREAKWATER.—Revere, Mass.—Bids are asked by Harbor and Land Commissioners, Frank W. Hodgdon, Ch. Engr., State House, Boston, until 2 p. m., Feb. 15, for building a breakwater about 1,000 ft. long, with a shore arm about 400 ft. long at Cherry Island Bar, in the town of Revere, to be constructed of granite quarry grout in large blocks. It is estimated that about 50,000 tons of stone will be required.

WHARF.—St. John, N. B.—The Common Council has accepted the bid of CLARK & ADAMS for the construction of a new deep water wharf on the Westside. The price for the structure is $149,000, and the wharf, which will be an extension of a new one, now under way, will be 600 ft. long, completed on the south side and faced for 200 ft. on the north side. The mayor is now endeavoring to secure some definite word from Ottawa on the dredging. The new wharf must be completed for next winter's business.

REBUILDING CANAL LOCKS, CEMENT, ETC.—Columbus, Ohio.—Bids are asked until noon, March 6, for rebuilding 14 locks on the Ohio Canal between Akron and Trenton, Ohio, and such minor masonry structures as may be required; for construction of two abutments and superstructures for Wolf Creek aqueduct; for delivery of about 12,000 bbls. of Portland cement at railway stations between Barberton and Tuscarawas, and at Coshocton, Ohio; for furnishing 80,000 ft. B. M. oak lumber, at locks to be rebuilt; for furnishing at Akron, Ohio, all cast and wrought iron or steel required for lock gates and minor structures. Charles E. Perkins, Ch. Engr. of Public Works, Columbus. (Advertised, Engineering News.)

TUNNELS.—Welch, Va.—The Norfolk & Western Ry. Co. has contracted for the construction of six tunnels between Vivian and Roder field at a cost of between $2,500,000 and $3,000,000. They are to have standard gage double tracks and will be lined throughout with concrete; 26 ft. high and 36 ft. wide. The tunnels will be driven from both ends by compressed air. A plant for this purpose will be erected at once, power being furnished by the Welch Electric Light & Power Co. The contracts were awarded to the following firms: At Welch—Tunnel 1,500 ft. long and grading, cost $400,000, J. C. ZOBRIST & CO., Roanoke, Va. At Vivian—Tunnel 600 ft. long with four miles of grading, RINEHART & DENNIS, Washington, D. C. At Devon—Tunnel 1,000 ft. long, bridge and masonry, L. H. VAUGHN & CO., Roanoke, Va. At Twin Branch—Tunnel 1,000 ft. long, two miles of grading and masonry, J. R. SURPELL, Louisville, Ky. At Roderfield—Two tunnels or twin tunnel, each 1,000 ft. long, CARPENTER & BOXLEY, Clifton Forge, Va.

LIGHTHOUSES.—Washington, D. C.—The Omnibus Lighthouse Bill was passed by the House Feb. 4 under suspension of the rules. It provides for the following improvements:

Light vessel, entrance Vineyard Sound, Mass., $115,000.

Light and fog signal, entrance of Huntington Harbor and Lloyd Harbor, New York, $40,000, the Point Lloyd Harbor light to be discontinued.

Light and fog signal near Lehigh Valley bridge, near Passaic, N. J., $15,000, the present channel light at Newark Bay to be discontinued.

Light-house tenders for the Third District, Porto Rican waters, Seventh District, Eighth District, 15th District, $565,000.

Relief light vessel, Fourth District, $115,000.

Beacon lights, La Trappe River, Md., $10,000.

Wharf for light-house material, Washington, D. C., $30,000.

Light station to take the place of the Horn Island light, destroyed by storm, $10,000.

Light and fog signal at White Shoal, north end Lake Michigan, to replace present light vessel, $250,000.

Light and fog signal near Beaver Bay, Lake Superior, $75,000.

Range lights at Grand Island Harbor, Lake Superior, $15,000, the present harbor light to be discontinued.

Relief light vessel, for Pacific Coast, $120,000.

Light and fog signal at Carquinez Strait, California, $50,000.

Light and fog signal on Molokai Island, Hawaii, $60,000.

Light vessel at entrance of Juan de Fuca Strait, Wash., $130,000.

Thirty new lightkeepers' dwellings are authorized at such points as, in the opinion of the light-house board, shall be for the best interest of the service, at a cost of not to exceed the sum of $6,500 at any one station, and an additional cost of $1,000 where it is necessary to acquire a new site for such dwelling.

PROPOSED RIVER AND HARBOR IMPROVEMENT WORK.—Washington, D. C.—Congress has made the following appropriations for the construction, repair and preservation of public work on rivers and harbors:

Cape Porpoise, Me.—Harbor improvement, $46,000.

Bangor, Me.—Improvement of Penobscot River, $139,000.

Gardiner, Me.—Improving Kennebec River, $75,000. Provision is made for spending $200,000 for completing this project.

Cape Ann, Mass.—Improving harbor of refuge at Sandy Bay, Cape Ann, $100,000. Provision is made for expenditure of $100,000, additional.

Beverly, Mass.—Completing harbor improvement, $38,500.

Boston, Mass.—General improvement, $50,000. Improving 35-ft. channel in Boston Harbor, $500,000. It is provided that $3,894,000 additional may be spent for this work.

Neponset River, Mass.—Neponset highway bridge improvement, $125,233, provided that State will improve and maintain a certain portion of this project.

New Bedford, Mass.—Improving harbors at New Bedford and Fairhaven, Mass., $100,000. In addition $200,000 may be spent.

Nantucket, Mass.—Improving harbor, $42,500.

Mystic River, Mass.—Improvement of Mystic and Malden Rivers, $60,000.

Newport, R. I.—Improving Newport Harbor, $85,000. In addition, $165,900 may be spent.

Point Judith, R. I.—Improving Point Judith Harbor of Refuge, $100,000. Additional sum of $56,000 may be spent.

Block Island, R. I.—Dredging harbor at Great Salt Pond, Block Island, $30,000.

Pawtucket River, R. I.—Improvement of Pawtucket River, $185,584. A sum of $67,792 additional must be provided by the State of Rhode Island.

Pawtucket River, R. I. and Conn.—Continuing improvement, $33,000.

New Haven, Conn.—Improvement of breakwater at New Haven, $100,000. A sum of $150,000 in addition may be spent.

Bridgeport, Conn.—Breakwaters, dredging, $113,000. In addition $350,000 may be spent.

South Norwalk, Conn.—Harbor improvements at East Norwalk and South Norwalk, $63,500.

Stamford, Conn.—Harbor improvements at Five Mile River, Stamford, Southport, Greenwich, Westport and Saugatuck River, $40,000.

Thames River, Conn.—Improvements, $30,-$70,000.

Long Island, N. Y.—Harbor improvements at Port Jefferson, Mattituck, Huntington, Flushing Bay, Carnarsie Bay and Sag Harbor, N. Y., $125,000.

New York, N. Y.—$800,000 for construction of two suction dredges for improving Ambrose Channel, New York Harbor. It is provided that $1,148,510 may be spent for Ambrose Channel excavation. Improving Coney Island Channel, $188,300.

Buffalo, N. Y.—Repairing and rebuilding breakwaters damaged last month, $350,000. Improving harbor: Stony Point breakwater, $52,336; excavate rock shoals, $56,100; dredging at South Buffalo, in outer harbor, $75,000.

Black Rock Harbor and Channel, N. Y.—Construction of ship lock of sufficient capacity to admit the largest vessels now in use on the Lakes, $1,000,000. In addition, $1,000,000 may be spent.

Charlotte, N. Y.—Continuing improvements, $88,500.

Great Sodus Bay, N. Y.—Improving harbor, $50,000.

Oswego, N. Y.—Improving harbor, $100,000. In addition, $100,000 may be spent.

Ogdensburg, N. Y.—Improving harbor, $75,000.

New York, N. Y.—Improving Bronx River and East Chester Creek, $29,000. Improving East River and Hell Gate, $250,000. Improving Harlem River, $150,000. Improving Hudson River, $250,000.

Raritan Bay, N. J.—Maintenance, $25,000.

Cold Spring Inlet, N. J.—Improving inlet to depth of 15 ft., $311,000. It is provided that depth may be increased to 25 ft., if local authorities contribute $100,000 within one year. In addition, $596,000 may be spent, if 15 ft. in depth, or $900,000, if 25 ft.

Passaic River, N. J.—Improvements, $50,000.

Newark, N. J.—Improving channel in Newark Bay and Passaic River, $200,000. In addition, $650,000 may be spent.

Keyport Harbor, N. J.—Improving Keyport Harbor, Matawan Creek; Raritan, South and Elizabeth Rivers, Shoal Harbor and Compton Creek, and Cheesequake Creek, N. J., $68,000.

Trenton, N. J.—Improving Perriwig Bar, Delaware River, between Trenton and Bordentown, N. J., $50,000.

Mantua Creek, N. J.—Improvements and construction of a dike, $34,450.

Salem River, N. J.—Improvements, $29,000.

Cohansey River, N. J.—Improvements, $55,800.

Erie, Pa.—Improving harbor, $120,000.

Delaware River, N. J., Pa. and Del.—Improvements, $895,000. In addition, $500,000 may be spent.

Monongahela River, Pa.—Construction of Lock and Dam No. 5, $256,042. In addition, $500,000 may be spent.

Allegheny River, Pa.—Repairing Dam No. 3, $200,000.

Wilmington, Del.—Improving harbor, $75,000.

Mispillion River, Del.—Improvements, $40,000.

Broadkill River, Del.—Improvements, $33,330.

Patapsco River, Md.—Improving river and channel to Baltimore, $500,000. In addition, $1,715,000 may be spent.

Rock Hall, Md.—Improving harbors at Rock Hall, Queenstown, Claiborne and Cambridge; and Chester, Choptank, Warwick, Pocomoke, La Trappe and Manokin Rivers and Tyaskin Creek, Md., $60,000.

Crisfield Harbor, Md.—Improvements, $37,707.

Washington, D. C.—Improving Potomac River, restoring depth of eight feet in tidal reservoir and constructing reservoir inlet gates, $258,000. Improving Anacostia River, $127,000.

Norfolk, Va.—Improving harbor and approaches, $319,825. In addition, $850,000 may be spent.

Cape Charles, Va.—Improving harbor, $25,000.

York River, Va.—Improving York, Mattapony and Pamunky Rivers and Occoquan and Carters Creeks, $49,000.

Rappahannock River, Va.—Improvements, $77,729. In addition, $90,000 may be spent.

James River, Va.—Improvements, $175,000.

Appomattox River, Va.—Improvements, $50,000.

Little Kanawha River, W. Va.—Improvements, $81,000.

Neuse River, N. C.—Improving Neuse and Trent Rivers, $30,000.

Wilmington, N. C.—Improving Cape Fear River, $165,000. In addition, $250,000 may be spent.

Winyah Bay, S. C.—Improvements, $30,000.

Charleston, S. C.—Improving inland waterway, $75,290.

Santee River, S. C.—Improving Santee, Wateree and Congaree Rivers, and Esterville-Minim Creek Canal, $150,000.

Savannah, Ga.—Improvements, $300,000. In addition, $700,000 may be spent. A dredge of the stationary pumping type, to cost $125,000, will be provided.

Brunswick, Ga.—Improving harbor, $146,650. In addition, $350,000 may be spent.

Cumberland Sound, Ga. and Fla.—Improvements, $75,000.

Altamaha River, Ga.—Improving Altamaha, Oconee and Ocmulgee Rivers, $60,000. In addition, $25,000 may be spent.

Savannah, Ga.—Improving inside water route between Savannah and Fernandina, Fla., $30,000.

Skidaway Narrows, Ga.—Improvements, $35,000.

Flint River, Ga.—Improvements, $25,000.

Chattahoochee River, Ga. and Ala.—Improvements, $150,000.

Coosa River, Ga. and Ala.—Improvements, $200,000.

Fernandina, Fla.—Improving harbor, $115,000.

Biscayne Bay, Fla.—Improvements, $100,000. In addition, $146,000 may be spent.

Key West, Fla.—Improving harbor, $200,000.

East Pass, Fla.—Improving East Pass and Carrabelle Bar and Harbor, $60,000.

Apalachicola Bay, Fla.—Improvements, $85,000.

Pensacola, Fla.—Improving harbor, $100,000.

St. Johns River, Fla.—Improvements, $125,000.

Crystal River, Fla.—Improving Crystal, Anclote and Suwanee Rivers, $25,000.

Withlacochee River, Fla.—Improvements, $150,000.

Manatee River, Fla.—Improvements, $70,710.

Apalachicola River, Fla.—Improvements, $25,000.

Mobile, Ala.—Improving harbor, $200,000. In addition, $370,000. Improving Mobile Bar, $50,000.

Alabama River, Ala.—Improvements, $200,000.

Conecuh River, Ala.—Improvements, $31,000.

Black Warrior River, Ala.—Improving Black Warrior, Warrior and Tombigbee Rivers, $350,000. In addition, $1,842,000 may be spent.

Gulfport, Miss.—Improving anchorage basin and channel at Ship Island; also Ship Island Pass, between Ship and Cat Islands, $100,000.

Pascagoula River, Miss.—Improvements, $200,000.

Pearl River, Miss.—Improvements below Rockport, $30,000.

Wolf River, Miss.—Improving Wolf and Jordon Rivers, $30,000.

Yazoo River, Miss.—Improving Yazoo, Tallahatchie and Coldwater Rivers and Tchula Lake, $45,000.

Big Sunflower River, Miss.—Improvements, $100,000.

Mississippi River, La.—Improving South Pass Channel, $50,000. In addition, $100,000 may be spent. Improving Southwest Pass, $1,000,000. In addition, $1,500,000 may be spent.

Colcasieu River, Miss.—Improvements, $25,000.

Bayou Plaquemine, La.—Improving Bayou Plaquemine, Grand River and Pigeon Bayou, $160,000.

Bayou Teche, La.—Improvements, $130,000.

Franklin, La.—Improving Inland Waterway Channel, from Franklin to Mermentau, $89,292. In addition, $200,000 may be spent.

Bayou Vermillion, La.—Improving channel, bay and passes, of Bayou Vermillion and Mermentau River and tributaries, $25,000.

Bogue Chitto, La.—Improving Bogue Chitto, Chefuncte River, Bogue Falia, Tickfaw River and tributaries, Amite River and Bayou Manchac, $34,000.

Ouachita River, La. and Ark.—Improving Ouachita and Black Rivers, $140,780. In addition, $200,000 may be spent.

Sabine Pass, Tex. and La.—Improvements, $160,000. In addition, $200,000 may be spent.

Galveston, Tex.—Improving harbor, $300,000. In addition, $700,000 may be spent. Improving channel, $150,000. Improving channel from Galveston Harbor to Texas City, $60,000.

Red River, La., Ark., Tex. and Okla.—Improvements, $250,000.

Brazos River, Tex.—Improvements, $35,000.

Aransas Pass, Tex.—Improvements, $200,000. In addition, $290,000 may be spent.

West Galveston Bay, Tex.—Improving channel.

Inland Waterways, Tex.—Improving inland waterways along the coast of Texas as follows: West Galveston Bay [illegible] Brazos River Canal (estimated cost, [illegible]); inland waterway channel from Aransas Pass to Pass Cavallo, including the G[illegible] River to Victoria (estimated cost, $[illegible]); Turtle Cove Channel from Aransas [illegible] to Corpus Christi (estimated cost, $[illegible]). For all $133,829 has been appropriated. In addition, $300,000 may be spent.

Galveston, Tex.—Improving [illegible] channel and Buffalo Bayou, $200,000, [illegible] which $50,000 is for restoration of [illegible] from foot of Main St., Houston. In addition $200,000 may be spent.

Brazos River, Tex.—Improvements, $75,000. For constructing lock and dam [illegible] Hidalgo Falls, Brazos River, $75,000. In addition $150,000 may be spent.

Trinity River, Tex.—Locks and dams, $40,000. In addition $300,000 may be spent.

Sulphur River, Tex. and Ark.—Improvements, $36,000.

Arkansas River, Ark.—Improvements, $35,000. The sum of $100,000 is additionally appropriated also.

White River, Ark.—Improvements, $30,000.

Upper White River, Ark.—Construction of Lock and Dam No. 3, $73,500.

Cumberland River, Tenn.—Improvement of Locks and Dams No. 3, No. 4, No. 5, No. 6 and No. 7, $150,000. In addition $400,000 may be spent.

Chattanooga, Tenn.—Improving Tennessee River, $105,000.

Tennessee River, Tenn.—Improvements between Chattanooga, Tenn., and Riverton, Ala., $205,000. Improvements at Hales Bar, $62,970. Improvements at Colbert and Bee Tree, Shoals, Ala., $200,000. In addition, $213,000 may be spent. Improvements below Riverton, $40,000.

Clinch River, Tenn.—Improvements, $56,625.

Kentucky River, Ky.—Constructing Locks and Dams Nos. 12 and 13, $100,000. In addition, $420,000 may be spent.

Sandusky, Ohio.—Improving harbor, $125,000.

Lorain, Ohio.—Improving harbor, $30,000.

Cleveland, Ohio.—Improving harbor, $225,000. In addition, $900,000 may be spent.

Fairport, Ohio.—Improving harbor, $100,000.

Muskingum River, Ohio.—Constructing Lock and Dam No. 11, $48,000.

Ohio River.—Improvements, $150,000. A dredging plant may be constructed in connection with this improvement.

Ohio River, Pa.—Lowering sill of Lock No. 6, $70,000.

Ohio River, Ohio and W. Va.—Improving Lock and Dam No. 8, $251,845. Improving Lock and Dam No. 11, $198,343. In addition $500,000 may be spent. Improving Locks and Dams Nos. 13 and 18, $174,778. In addition $400,000 may be spent. Improving Lock and Dam No. 26, $100,000. In addition, $965,000.

Ohio River, Ohio and Ky.—Improving Lock and Dam No. 37, $100,000.

Louisville, Ky.—Improving Ohio River, raising dam, etc., $271,000. For removal of rocks in channel, $43,000.

Marquette, Mich.—Improving harbor, $30,000.

Grand Marais, Mich.—Improving harbor, $30,000.

Manistique Harbor, Mich.—Improving harbor, $25,000.

South Haven, Mich.—Improving harbor, $40,000.

Saugatuck Harbor and Kalamazoo River, Mich.—Improvements, $75,000.

Holland Harbor, Mich.—Improvements, $138,452.

Grand Haven Harbor, Mich.—Improvements, $50,000

Muskegon, Mich.—Improving harbor, $75,000.

Ludington, Mich.—Improving harbor, $100,000. In addition, $739,087 may be spent.

Manistee, Mich.—Improving harbor, $25,000.

Harbor Beach, Mich.—Improving harbor, $150,000.

Grand River, Mich.—Improvements, $88,000.

Saginaw, Mich.—Improvements, $75,000.

Detroit River.—Improvements, $150,000. In addition, $150,000 may be spent. Improving Detroit River, in accordance with plan "B," $2,000,000. In addition, $4,670,950 may be spent.

St. Mary's River, Mich.—New lock, with separate canal, at the Falls, $1,200,000. In addition $5,000,000 may be spent.

Racine Wis.—Improving harbor, $50,000.

Milwaukee, Wis.—Improving the harbor, rebuilding breakwater and pier, $200,000. In addition, $392,000 may be spent.

Sheboygan, Wis.—Improving harbor, $40,000.

Manitowoc, Wis.—Improving harbor, $100,000. In addition, $276,000 may be spent.

Two Rivers, Wis.—Improving harbor, creation of 16-ft. channel, etc., $90,000.

Ashland, Wis.—Improving harbor, $90,000.

Fox River, Wis.—Improving river, $35,000.

Duluth, Minn., and Superior, Wis.—Improving harbor, dredging, $525,000, of which $300,000 is to be spent upon the Superior Entry.

Michigan City, Ind.—Improving harbor, $60,000.

Waukegan, Ill.—Improving harbor, $50,000.

Chicago, Ill.—Improving harbor, $250,000.

Calumet River, Ill. and Ind.—Improvements, $191,500.

Illinois River, Ill.—Improvements, $50,000.

Mississippi River.—Improved river from Head of the Passes to mouth of the Ohio River, $3,000,000, including construction of levees, dredge boats, etc. In addition, $6,000,000 may be spent. For improving river from mouth of Ohio River to mouth of Missouri River, $250,000. In addition, $750,000 may be spent. For improving river from mouth of the Missouri River to Minneapolis, Minn., $500,000. In addition, $1,500,000 may be spent. For improving reservoirs at head-waters of Mississippi River, Minn., $145,000.

Osage River, Mo.—Improvements, $78,000. In addition, $1[illegible],000 may be spent.

Missouri River.—Improvements from mouth to Fort Benton, Mont., $300,000, of which $150,000 is to be spent for improvements between the mouth and Kansas City; $100,000 between Kansas City and Sioux City; $50,000 between Sioux City and Fort Benton.

Wilmington, Cal.—Improving harbor, $113,000.

San Luis Obispo, Cal.—Improving harbor, $23,000. In addition, $200,000 may be spent.

Oakland, Cal.—Improving harbor, $68,203. In addition $[illegible]000 may be spent.

Humboldt Harbor and Bay, Cal.—Improvements, $83,000.

San Joaquin River, Cal.—Improvements, $30,000.

Stockton, Cal.—Completion of Stockton and Mormon Channels, $56,079.

Sacramento and Feather Rivers, Cal.—Improvements, $[illegible],000.

Coquille River, Ore.—Improvements, $60,000.

Willamette River, Ore.—Improvements between Portland and Yamhill River, Ore., $60,000. For construction of dredge for improving lower Willamette River and Columbia River below Portland, $300,000.

Columbia River, Ore. and Wash.—Improvements at the mouth of the river, $750,240. In addition $1,700,000 may be spent. Improvements between the Dalles Rapids and Celilo Falls, Ore. and Wash., $100,000. In addition $500,000 may be spent. Improving the river and tributaries above Celilo Falls to mouth of Snake River, Ore. and Wash., $120,000.

Oregon and Washington.—Construction of dredge for use in harbors and coast waters of Oregon and Washington, $100,000.

Grays Harbor, Wash.—Improving harbor and bar entrance, $200,000. In addition $400,000 may be spent. For improvements between Aberdeen and entrance to harbor, and Chehalis River, Wash., $177,000.

Willapa River and Harbor, Wash.—Improvements, $25,000.

Puget Sound, Wash.—Improvements, $75,000.

Swinomish Slough, Wash.—Improvements, $75,000.

Columbia River, Wash.—Improvements between Wenatchee and Bridgeport, Wash., $42,000.

St. Michael Canal, Alaska.—Improvements, $98,000. In addition $150,000 may be spent.

Honolulu, Hawaii. — Improving harbor, $200,000. In addition $200,000 may be spent.

Hilo, Hawaii.—Improving harbor, $200,000. In addition $200,000 may be spent.

San Juan, Porto Rico.—Improving harbor, $157,500. In addition $600,000 may be spent, to include dredging of channel east of the Puntilla de la Marina: 398,600 sq. yds. to depth of 30 ft. and 70,200 sq. yds to depth of 24 ft.

For emergencies—$300,000. It is provided that not more than $10,000 shall be spent for any single improvement.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

BUILDING.—Molokai, Hawaii.—James Knox Taylor, Supervising Arch. of the Treasury, Washington, D. C., has postponed until March 4, the opening of the bids on the construction of the hospital for lepers, Molokai, Hawaii.

PIPE.—Panama.—Requisitions have been received by the Isthmian Canal Commission, Washington, D. C., for a quantity of sewer pipe, as follows: 15,000 ft. 6-in. pipe; 25,000 ft. 8-in., and 4000 ft. 10-in., with the necessary fittings.

TRACK MATERIALS.—Panama.—Requisitions have been received from the Isthmus by the Isthmian Canal Commission, Washington, D. C., calling for a large quantity of track materials, as follows: 4,000 tons, 70-lb. steel rails; 25,000 splice bars; 235,000 tie plates; 450 kegs bolts; 1,500 kegs spikes; 50,000 nut locks. Specifications and proposal blanks for this material will be issued in a few days.

HOISTING ENGINES. — Panama. — Bids were opened Jan. 29, at the Office of the Isthmian Canal Commission, Washington, D. C., for six double cylinder double friction drum hoisting engines with boilers complete, cylinder seven in. in diameter, and 10-in. stroke, and for four double cylinder double friction drum hoisting engines with boilers complete, cylinder 8½-in diameter; 12-in. stroke. Time was an essential element of the contract; 12 bids were received and the contract was awarded to the LAMBERT HOISTING ENGINE CO., Newark, N. J., at $912.50 each for the smaller engines, $1,650 each for two of the larger engines, and $1,545 each for the other two; time four days.

SUCTION DREDGES.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded contract for furnishing two suction dredges to the MARYLAND STEEL CO., Sparrows Point, Md., at $205,000. Dredges to be knocked down ready for delivery at Sparrows Point, Md.; delivery one dredge in 285 days and second dredge 35 days later.

ENGINEERING SUPPLIES. — Panama.— Bids are asked until 10.30 a. m., Feb. 16, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., under Circular 349, for a large quantity of engineering materials, of which the following are especially interesting: 150,000 hewn railroad cross ties, 7-in. × 9-in. × 8½ ft. and 100 sets switch ties; 50 dump car doors; one horizontal bending machine; one flanging clamp; saltpeter dynamite: 400,000 lbs. 45%; 150,000 lbs., 60%; 50,000 lbs., 75%; 300,000 lbs. black powder; 40,000 electric exploders; about 30,000 ft. rubber hose, air-brake, steam, standard water; suction, and air hose; steel and iron; valves; shovels; track tools; ratchet drills; jacks; vises; differential blocks; soldering coppers; fire extinguishers; wire rope; lanterns; cotton waste; paints; varnish; shellac; turpentine, oils; kerosene; alcohol; putty; graphite, etc.

LUMBER.—Panama.—Bids were opened Jan. 29, under Circular 348, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, for furnishing 3,500,000 ft. B. M. lumber, drop siding, flooring, etc., all lengths, as follows: A. S. Bacon & Sons, Savannah, $108,500; 90-180 days. Bellingham Bay Lumber Co., San Francisco, $98,525; 60-120 days. CAMP & HINTON CO., New Orleans, awarded contract at $87,430, if whole class be awarded; 60 days. Chicago Lumber & Coal Co., St. Louis, $106,295; 100-144 days; $99,295, if whole be awarded them. Continental Lumber Co., Houston, Tex., $103,483; 60-150 days. Dixon Lumber Co., Savannah, $100,200; 50-150 days. Eastern & Western Lumber Co., Portland, Ore., $98,900; $99,400; 30-60 days. G. Elias & Bros., Buffalo, $109,759; 60-120 days. Ensign Lumber Co., Jacksonville, Fla., $97,187; 90-150 days. D. L. Gillespie & Co., Pittsburg, $96,837; 90-140 days. W. R. Grace & Co., New York, $125,392; 90-180 days. Gulf Cypress Lumber Co., Tampa, Fla., $105,650; 60-150 days. Lutcher & Moore Lumber Co., Orange, Texas, $95,575; 30-90 days. McGowin Lumber Co., Mobile, Ala., $94,600; $94,300; 60-180 days. Charles Nelson Co., San Francisco, $109,350; 120 days. Robt. R. Sizer & Co., Jacksonville, Fla., $101,615; 90-120 days. Southern Sawmill Co., New Orleans, part, $3,950. Frank Waterhouse & Co., Portland, Ore., $99,505; 90-150 days. Gamwell & Wheeler, Seattle, Wash., $98,600; 40 days. Long Bell Lumber Co., Kansas City, Mo., $97,750; 90-120 days.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the worr was advertised in Engineering News.]

SEWERAGE AND PAVING MATERIALS. —Minneapolis, Minn.—Bids were received as follows by the City Council on Jan. 25 for materials for paving and sewerage work:

Sewer materials (2,000,000 sewer brick)—Excelsior Brick Co., city, 500,000, $8.40 f. o. b.; Menomonie Hydraulic Press Brick Co., city, 2,000,000, $10.50 delivered; Wisconsin Red Pressed Brick Co., city, 1,000,000, $9.40 delivered; $8.40 f. o. b.

Natural cement (5,000 bbls.)—Landers, Morrison Christenson Co., city, 62 cts., sacks 10 cts.; Menomonie H. P. Brick Co., city, 60 cts., sacks 10 cts.; Carney Bros., city, 69 cts., sacks 10 cts.

Portland cement (5,000 bbls.)—Guarantee Cement & Stone Co., city, $1.75, sacks 10 cts.; N. W. Lime Co., St. Paul, Minn., $1.73, sacks 7½ cts.; Menomonie H. P. Brick Co., city, $1.70, sacks 7½ cts.; Superior Mfg. Co., City, $2.02½, sacks 7½ cts.

Special castings (200 tons)—N. W. Foundry Co., city, $55 a ton (2,000 lbs.); Standard Foundry Co., city, $56.60 a ton (2,000 lbs.); Crown Iron Works, city, $58 a ton (2,000 lbs.).

Vitrified clay pipe—(A) Red Wing Sewer Pipe Co., Red Wing, Minn.; (B) Landers, Morrison, Christenson Co., Minneapolis:

	(A)	(B)
6-in. pipe, per ft.	$0.10½	$0.10
9-in. " "	.17¼	.17¾
12-in. " "	.31	.32
15-in. " "	.43	.45
18-in. " "	.62	.65
24-in. " "	1.25	1.32
6 × 9 Y's, each	.70	.70
6 × 12 " "	1.55	1.58
6 × 15 " "	2.15	2.18
6 × 18 " "	3.10	3.10
6 × 24 " "	5.00	5.08
12 curves, each	1.35	1.38
15 " "	1.90	1.92
18 " "	2.75	2.70
24 " "	4.16	...
6-in.. slants	.32	...

Water-works valves: (A) 145 6-in., (B) ten 8-in., (C) eight 12-in., (D) six 16-in., (E) four 20-in., 3-in. by-pass, (F) two 24-in., 6-in. by-pass, (G) two 24-in flanged, 6-in. by-pass—Chapman Valve Co., Indian Orchard, Mass., Stock: (A) $11.75, (B) $11.90, (C) $37.40, (D) $78.10, (E) $137.50, (F) $194.55, (G) $198.15. Minneapolis specifications: (A) $27.25, (B) $36.13, (C) $72.96, (D) $119.47, (E) $209.11, (F) $321.17, (G) $458.17. J. B. Clow & Sons, Chicago, Ill., Minneapolis specifications: (A) $14.40, (B) $22.44, (C) $41.40, (D) $90.00, (E) $154.60, (F) $271.00, (G) $278.50.

Paving and curb materials. Cedar blocks (10,000 sq. yds., f. o. b.)—Northern Tie & Timber Co., city, 59½ cts.; Page & Hill Co., city, 68 cts.

Crushed granite (2,000 cu. yds., f. o. b.)—Western Granite Co., St. Cloud, Minn., $2.28; New Ulm Stone Co., New Ulm, Minn., $2.24; Duluth Crushed Stone Co., Duluth, Minn., $2.45.

Granite curb (5 × 20 ins., 5,000 lin. ft., f. o. b.)—Robt Graham, St. Cloud, Minn., straight 64 cts., radius 75 cts.; N. W. Granite Co., St. Cloud, Minn., straight 62 cts., radius 72 cts.

Vitrified paving blocks (40,000 sq. yds., f. o. b.)—Menomonie H. P. Brick Co., city, 86½ cts.; Purington Paving Brick Co., Galesburg, Ill., 96⁸/₁₀ cts.; Barber Asphalt Co., city, 91 cts.; Landers, Morrison, Christenson Co., city, (flint) 94 cts.

Creosoted blocks (40,000 sq. yds., f. o. b.) —Republic Creosoting Co., Indianapolis, Ind., (Norway pine): 3-in., $1.45, 3½-in., $1.65, 4-in., $1.79 (Southern pine): 3-in., $1.57, 3½-in., $1.78, 4-in., $1.95; Kettle River Quarries Co., city, 4-in., $1.82.

Sandstone paving blocks (40,000 sq. yds., f. o. b.)—Kettle River Quarries Co., city, $1.55; Barber Asphalt Co., city, $1.58.

Sandstone curb (10,000 lin. ft., f. o. b.)—(A) 5 × 18 straight, (B) 5 × 18 radius, (C) 5 × 20 straight, (D) 5 × 20 radius, (E) 6 × 20 straight, (F) 6 × 20 radius.—Barber Asphalt Co., city, (A) 52 cts., (B) 62 cts., (C) 54 cts., (D) 64 cts., (E) 64 cts., (F) 74 cts.; Kettle River quarries Co., city, (A) 54 cts., (B) 64 cts., (C) 56 cts., (D) 66 cts., (E) 67 cts., (F) 77 cts.

Portland cement (15,000 bbls., f. o. b.)—Superior Mfg. Co., city, $2.02½ net, sacks 7½ cts.; Guarantee Cement & Stone Co., city, $1.75 net, sacks 10 cts; Menomonie H. P. Brick Co., city, $1.70 net, sacks 7½ cts.; N. W. Lime Co., St. Paul, Minn., $1.73 net, sacks 7½ cts.

PAVING, SEWERAGE, ETC.—East St. Louis, Ill.—Bids were received by the Board of Local Improvements on Jan. 28 for construction of the local improvement on 13th St. from the northerly line of St. Clair Ave. to the southerly line of Nectar Ave., by sewering, filling, grading, curbing and paving with brick. W. J. Crocken is City Engr. The bidders and itemized prices were as follows: (A) M. J. Keeley, East St. Louis, Ill.; (B) Walter Coonan, East St. Louis; (C) B. M. Sweeney, East St. Louis; (D) W. H. Hill, East St. Louis:

BIDS RECEIVED ON JAN. 28 FOR IMPROVING 13TH ST., EAST ST. LOUIS, ILL.

	(A)	(B)	(C)	(D)
6-in. pipe, laid, 4,980 ft.	$0.23	$0.31	$0.39	$0.25
10-in. pipe, laid, 600 ft.	.40	.47	.50	.50
12-in. pipe, laid, 820 ft.	.60	.55	.70	.60
15-in. pipe, laid, 1,600 ft.	.70	.74	.85	.75
18-in. pipe, laid, 2,600 ft.	.80	.85	1.00	.95
20-in. pipe, laid, 2,480 ft.	1.10	1.07	1.50	1.15
Cast-iron manhole covers, 15-in.	12.00	13.50	14.00	13.00
Stone inlets, 18-in.	12.00	12.50	12.00	16.00
Brick masonry, 99⁷/₉ cu. yds.	9.00	8.50	8.50	9.00
Limestone curb, set, 7,530 ft.	.60	.62	.65	.60
Excavation placed in fill, 7,640 cu. yds.	.25	.25	.25	.25
Filling in excess of excavation, 1,220 cu. yds.	.20	.25	.25	.25
Total, except paving	$15,771.40	$16,484.00	$18,432.00	$16,673.00
Paving.	(A)	(B)	(C)	(D)
Wabash, brick, 18,270 sq. yds.	$1.56	....	$1.52	$1.65
Albion, brick, 18,270 sq. yds.	1.50	$1.55	1.53	1.50
Purington, brick, 18,270 sq. yds.	1.56	1.56	....	1.50
Banner, 18,270 sq. yds.	1.51	1.52	....	1.51
Hydraulic	....	1.64	....	....
Total, including paving.	(A)	(B)	(C)	(D)
Wabash	....	....	$46,202.00	....
Albion	$43,176.00	....	....	$44,078.00
Purington	....	....	....	....
Banner	....	$44,254.00	....	....

(Engineer's Estimate, $48,434.)

FOREIGN CONTRACTS.

RAILWAY EQUIPMENT.—Chile.—It is announced that the Industrial Commission of the Chilean Chamber of Deputies has formulated plans providing for the expenditure of 2,500,000 pesos (about $900,000) for purchase of locomotives and carriages for the State railways.

WATER-WORKS. — Straits Settlements. — The Municipal Commissioners of Singapore will borrow $8,145,410 for the construction of water-works, to be divided as follows: $650,000 for the extension of filters, $3,834,460 for Kalang reservoir and land, and $3,660,950 for Selitar works.

ELECTRIC RAILWAY. — Chile. — Application has been made by Don Luis Diez Garces for permission to construct an electric railway in the "Avenida Pedro de Valdiva," Santiago; and the formation in Valparaiso of a company entitled "Compania Ferrocarril Electrico Cerro de la Cordillera," with a capital of 200,000 pesos (about $72,000), to work a concession granted by the municipality of Valparaiso for an electric railway between the "Plaza Echaurren" and "Lo Chaparro" bridge.

ELECTRIC RAILWAY.—Spain.—Bids are asked until Feb. 18 by the Directorate General of Public Works, Madrid, for the concession of an electric tramway in Vigo. An application for this concession has beeen made by Don Laureano Salgado, who, at the same rates, will enjoy certain preferential rights over other bidders. The competition will turn, in the first place, on a reduction of the tariffs proposed; and if two or more identical propositions are made, a further verbal adjudication will take place with a view to a reduction of the period of the concession (60 years). A deposit of 3,757 pesetas (about $700) is required to qualify any bid. Local representation is necessary.

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ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—

Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.40 to 2.50 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—

New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $31 to $33; old iron f. o. b. New York, $24.50 to $25; old steel, long lengths, $19.50 to $20; old steel, short pieces, $16.25 to $16.75.

Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 20 to 45 lbs., $32; 16-lb., $33; and 12-lb., $34 at mill.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts.; angles, 3 × 2 and up to 6 × 6, 1.84½ cts.; zees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—

New York—at tidewater—Sheared plates tank, 1.84½ to 1.94½ cts.; flange, 1.94½ to 2.14½ cts.; marine, 2.24½ to 2.44½ cts.; still bottoms, 2.14½ to 2.29½ cts.; fire-box, 2.75 to 3.50 cts.

Pittsburg—Tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—

Pig Iron:

At New York—tidewater—

Northern—	
No. 1 X Foundry	$26.50 to $27.00
No. 2 X Foundry	24.50 to 25.50
No. 2 Plain	24.00 to 25.00
Gray forge	23.50 to 24.00
Basic	24.00 to 24.50
Virginia—	
No. 1 Foundry	$25.00 to $25.50
No. 2 Foundry	24.50 to 25.50
Basic	22.80 to 24.00
Southern—	
No. 1 Foundry	**$26.50 to $27.00**
No. 2 Foundry	**26.00 to 26.50**
No. 3 Foundry	**25.50 to 26.00**
No. 4 Foundry	24.50 to 25.00
No. 1 Soft	26.00 to 27.00
No. 2 Soft	25.50 to 26.00
Gray forge	22.50 to 23.00
Mottled	22.00 to 22.50
At Chicago—	
Lake Superior Charcoal	$27.00 to $27.50
Northern Coke Foundry, No. 1	26.00 to 26.50
Northern Coke Foundry, No. 2	25.50 to 26.00
Northern Coke Foundry, No. 3	25.50 to 26.00
Northern Scotch, No. 1	26.00 to 27.00
Ohio Strong Softeners, No. 1	26.00 to 26.50
Ohio Strong Softeners, No. 2	25.50 to 26.00
Southern Coke, No. 1	27.35 to 27.85
Southern Coke, No. 2	26.85 to 27.35
Southern Coke, No. 3	26.35 to 26.85
Southern Coke, No. 4	25.85 to 26.35
Southern Coke, No. 1 Soft	27.35 to 27.85
Southern Coke, No. 2 Soft	26.85 to 27.35
Southern Gray Forge	25.85 to 26.35
Southern Mottled	22.85 to 23.35
Malleable Bessemer	26.00 to 26.50
Standard Bessemer	25.30 to 25.80
Jackson Co. and Kentucky Silvery, 6%	29.30 to 29.80
Jackson Co. and Kentucky Silvery, 8%	31.30 to 31.80
Jackson Co. and Kentucky Silvery, 10%	33.30 to 33.80
At Pittsburg, f. o. b. cars—	
No. 2 Foundry	$24.50 to $25.00
Gray Forge	20.85 to ....
Bessemer Iron	21.55 to 23.35
Ferro-manganese	78.00 to 80.00
Muck Bars	34.00 to 37.00
Iron Bars	1.80 to 1.85

Cast-iron Pipe:

New York—Carload lots, net tons, 6-in., at tidewater, $34.50 to $35.

Chicago—4-in. water pipe, $37 to $38; 6-in. to 12-in., $36 to $37; over 12-in., $35 to $36, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Asphaltum:

Ventura and other California asphalts, $20 to $23 per ton at New York; Trinidad refined, $22 to $25 per ton; Venezuela asphalt, $25 to $60 per ton; Bermuda asphalt, $25 to $35.

Cement:

Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.

Copper:

Lake, 25 to 25.25 cts.; electrolytic, 24.75 to 25 cts.; casting, 24.25 to 24.75 cts.

Lead:

New York, spot, 6.20 to 6.30 cts.

Spelter:

New York, spot, 6.75 to 6.85 cts.

Tin:

New York, spot, 42.30 to 42.55 cts.

Tar:

New York, $5.85 to $6 per bbl.

Pitch:

New York, $3.20 per bbl.

LUMBER—

New York, wholesale prices:

Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.

Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts.; 7 × 8 ins. × 8½ ft., 74 to 75 cts.; 7 × 9 ins. × 8½ ft., 79 to 80 cts.

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CIVIL SERVICE EXAMINATIONS

RODMAN.—New York, N. Y.—The Municipal Civil Service Commission will receive applications from Feb. 7, 9 a. m., until Feb. 21, 4 p. m., for position of Rodman, Boaro of Water Supply. Examination will be held on March 5, 10 a. m. Minimum age, 18 years. Frank A. Spencer, Secy. (Advertised, Engineering News.)

ELECTRICAL DRAFTSMAN, STEEL WORK DRAFTSMAN.—Washington, D. C.—An examination will be held at the Navy Yard, Washington, D. C., on Feb. 18, for filling the following positions in the Bureau of Yards and Docks, Navy Dept.: One first-class Electrical Draftsman, $5.04 a day; one first-class Structural Steel Work Draftsman, $5.04 a day. The examination will be open to all comers who can give evidence of experience in the kind of work for which they seek employment, and who are citizens of the United States. Persons now holding positions at the yard will be admitted to competition on the same footing as other applicants. Applications must be addressed to the "Commandant, Navy Yard, Washington, D. C.," and must be delivered to him on or before Feb. 15. No application received after that date will be considered.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 54.

SEWERS.

Salt Lake City, Utah.

Sealed proposals will be received at this office until 11 o'clock A. M., Thursday, February 28, 1907, for the work of constructing all Pipe Sewers that have been or may be ordered by the City Council from October 31, 1906, to October 31, 1907.

The approximate quantities of pipe to be furnished and laid, including excavation, manholes, flush tanks, etc., are as follows:

8-inch......122,000 linear feet.
10-inch...... 24,000 " "
12-inch...... 7,200 " "
15-inch...... 3,200 " "
18-inch...... 1,200 " "
21-inch...... 1,500 " "
24-inch...... 1,600 " "

Instructions to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the
BOARD OF PUBLIC WORKS,
F. J. LEONARD, Chairman.
LOUIS C. KELSEY, City Engineer. 6-2t

CEMENT SIDEWALK.

Salt Lake City, Utah.

Sealed proposals will be received at this office until 11 o'clock A. M., Thursday, February 28, 1907, for the work of constructing all Cement Sidewalks, except Sidewalk Extension No. 108, that have been or may be ordered by the City Council from October 31, 1906, to October 31, 1907.

The approximate quantities of walk to be laid, including excavation, etc., are as follows:

Cement Sidewalk Pavement:—
4 inches thick......500,000 square feet.
6 inches thick..... 30,000 square feet.

Instructions to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the
BOARD OF PUBLIC WORKS,
F. J. LEONARD, Chairman.
LOUIS C. KELSEY, City Engineer. 6-2t

WATER MAINS.

Salt Lake City, Utah.

Sealed proposals will be received at this office until 11 o'clock A. M., Thursday, February 28, 1907, for the work of constructing all Water Mains that have been or may be ordered by the City Council from October 31, 1906, to October 31, 1907.

The approximate quantities of pipe to be furnished and laid, including excavating, special castings, hydrants, valves, etc., are as follows:

6-inch........56,000 linear feet.
8-inch........ 6,000 " "
10-inch........ 800 " "
12-inch........ 800 " "

Instructions to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the
BOARD OF PUBLIC WORKS,
F. J. LEONARD, Chairman.
LOUIS C. KELSEY, City Engineer. 6-2t

REBUILDING CANAL LOCKS.

Columbus, Ohio.

Sealed proposals will be received at the Office of the State Board of Public Works, Columbus, Ohio, until 12 o'clock noon, of March 6th, 1907, and then publicly opened, for the rebuilding of 14 locks on the Ohio Canal between Akron and Trenton, Ohio, and such minor masonry structures as may be required between above named points; for the construction of two abutments and superstructure for Wolf Creek Aqueduct; for the delivery of about 12,000 barrels of Portland Cement at railway stations between Barberton and Tuscarawas and at Coshocton, Ohio; for the furnishing and delivery, at the locks to be rebuilt, of about 80,000 ft. B. M. of oak lumber for lock gates; for the furnishing and delivery at Akron, Ohio, of all cast and wrought iron or steel required for lock gates and minor structures.

Plans and specifications for the above work will be on file on and after February 15, 1907, at the office of the Chief Engineer of Public Works at Columbus, Ohio, and at the office of the Canal Engineer at Akron, Ohio, where information may be obtained relative to quantities, bonds and blanks for proposals.

By order of the Board of Public Works.
CHARLES E. PERKINS,
6-4t Chief Engineer of Public Works.

WATER MAINS.

Salt Lake City, Utah.

Sealed proposals will be received at this office until 11 o'clock A. M., Thursday, March 7, 1907, for the work of constructing New Water Supply Mains.

The approximate quantities of pipe to be furnished and laid, including excavation, special castings, hydrants, valves, etc., are as follows:

Furnishing and laying continuous wooden stave or cast-iron pipe:—
36-inch.........4,972 linear feet.
30-inch.........7,032 " "

Furnishing and laying cast-iron pipe:—
30-inch......... 898 linear feet.
24-inch......... 793 " "
18-inch......... 793 " "
12-inch.........2,376 " "

Taking up and relaying cast-iron pipe:—
16-inch.........3,300 linear feet.

Instructions to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the
BOARD OF PUBLIC WORKS,
F. J. LEONARD, Chairman.
LOUIS C. KELSEY, City Engineer. 6-2t

DISPOSAL OF CITY WASTES, ETC.

New York, N. Y.

Attention is called to the fact that at noon, Friday, February 25, 1907, bids will be opened by the Commissioner of Street Cleaning of The City of New York, at his office in the Park Row Building for the contract for the final disposition of garbage and kindred refuse of the Borough of Brooklyn, for the period of five years beginning September 1, 1907.

For further information see advertisement of the matter in the City Record and Brooklyn Corporation Newspapers, or apply at the office of the Commissioner of Street Cleaning.

M. CRAVEN,
6-3t Commissioner of Street Cleaning.

TRAMWAY.

POINT DU BOIS HYDRO-ELECTRIC DEVELOPMENT.

Winnipeg, Can.

Sealed tenders addressed to the Chairman of the Board of Control, and marked on the envelope, "Tender for Tramway," will be received at the office of the undersigned up to noon of Monday, the Twenty-fifth day of February, 1907, for the construction of twenty-four miles of single track tramway between Lac du Bonnet and Point du Bois.

Copies of the instructions to bidders, specifications and form of tender may be obtained and the plans and profiles may be seen, on and after Friday, February 1st, at the Power Engineer's Office, Carnegie Library Building, Winnipeg.

Each tender must be accompanied by a certified cheque payable to the order of the City Treasurer, for the sum called for in the Instructions to Bidders ($5,000.00), which cheque will become forfeit to the corporation in the event of the successful contractor refusing or neglecting to sign a satisfactory contract if called upon to do so.

Alternative tenders will be received for the following portions of the work:

(a) Ties delivered (certified cheque $1,000).

(b) Track-laying and ballasting (certified cheque $1,500).

(c) Remainder of construction as specified (certified cheque $3,000).

These tenders will be subject to the same general conditions as those specified for tender for the whole work.

The board reserves the right to reject any or all tenders, or to accept any bid which appears advantageous to the City of Winnipeg.

M. PETERSON,
Secretary.

Board of Control Office,
Winnipeg, Jan. 23, 1907. 6-2t

U. S. ENGR. OFFICE, Boston, Mass., Jan. 28, 1907.—Sealed proposals for delivery of rubblestone in north jetty at Newburyport Harbor, Mass., will be received here until 12 M., Feb. 28, 1907, and then publicly opened. Information on application. EDW. BURR, Maj., Engrs. 6-3t

BRIDGE.

Binghamton, N. Y.

Notice is hereby given that the Common Council of the City of Binghamton, N. Y., will receive up to February 25th, 1907, at 8 P. M., sealed proposals for the construction of a bridge over Chamberlain Creek, on Court Street, in accordance with plans and specifications made by S. M. Baird, City Engineer, now on file with the City Clerk.

Proposals must be sealed, addressed to D. C. Herrick, City Clerk, and marked "Proposals for Bridge on Upper Court Street," and accompanied by a certified check or New York draft for the sum of $250.00, made payable to the order of said City Clerk, which check or draft will be held by the City as security that the party to whom the work is awarded will enter into contract therefor and give the bond required by the specifications, with sureties to be approved by the Mayor, conditioned for the faithful performance of the work.

The City reserves the right to reject any or all bids.

By order of the Common Council.
D. C. HERRICK,
6-2t City Clerk.

ASPHALT.

Winnipeg, Can.

Sealed tenders, addressed to the Chairman of the Board of Control for the supply of from 3,000 to 5,000 tons of asphalt for street paving for the City of Winnipeg will be received at the office of the undersigned up to 12 o'clock, noon, on Thursday, February 28th, 1907.

Specifications and form of tender may be obtained upon application at the office of Col. H. N. Ruttan, City Engineer, Winnipeg.

Each tender must be accompanied by an accepted cheque or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract if called upon to do so.

The Board reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

M. PETERSON,
Secretary.

Board of Control Office,
Winnipeg, Jan. 24, 1907. 6-2t

Office of the Building Committee,
U. S. Department of Agriculture,
Washington, D. C., Jan. 31, 1907.

Sealed proposals will be received at this office until 2 o'clock p. m., on the 12th day of March, 1907, and then opened, for the power plant equipment of the new buildings for the United States Department of Agriculture, Washington, D. C., in accordance with the drawings and specifications, copies of which may be obtained at the Office of the Building Committee, United States Department of Agriculture.

All applications must be accompanied by a certified check for $100, made payable to the Disbursing Clerk of the Department of Agriculture, which checks will be retained until the return of the drawings and specifications.

B. T. GALLOWAY,
6-3t 10-1t Chairman.

Office of the Building Committee,
U. S. Department of Agriculture,
Washington, D. C., Jan. 31, 1907.

Sealed proposals will be received at this office until 2 o'clock p. m., on the 12th day of March, 1907, and then opened, for the construction of the Power-House for the United States Department of Agriculture, Washington, D. C., in accordance with the drawings and specifications, copies of which may be obtained at the Office of the Building Committee, United States Department of Agriculture.

All applications must be accompanied by a certified check for $25, made payable to the Disbursing Clerk of the Department of Agriculture, which checks will be retained until the return of the drawings and specifications.

B. T. GALLOWAY,
6-3t 10-1t Chairman.

DEPARTMENT OF THE INTERIOR, U. S. Geological Survey, Reclamation Service, Washington, D. C., February 2, 1907.—Sealed proposals will be received at office of the U. S. Reclamation Service, Great Falls, Montana, until 2 o'clock p. m., March 15, 1907, for constructing an earth fill dam and accessory structures, located on Willow Creek, about 5 miles northwest of Augusta, Montana, and involving about 7,500 cubic yards of open cut excavation, 170,000 cubic yards of embankment, 620 linear feet of lined outlet tunnel, and 130 cubic yards of reinforced concrete. Particulars may be obtained from the Chief Engineer of the Reclamation Service, Munsey Building, Washington, D. C., the Supervising Engineer, Huntley, Montana, or the Engineer, Great Falls, Montana. E. A. HITCHCOCK, Secretary. 6-5t

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SEALED PROPOSALS will be received at the office of the Light-House Engineer, Baltimore, Md., until 12 o'clock M., February 20, 1907, and then opened, for furnishing materials and labor of all kinds necessary for the completion and delivery of the metal work for the Ragged Point Light-House, Potomac River, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to LIEUT.-COL. R. L. HOXIE, Corps of Engineers, U. S. A., Engineer. 6-1t

STREET PA[illegible]NG.

St. [illegible]rsville, Ohio.

Sealed bids will be r[illegible]d by John C. Nichols, Clerk of the V[illegible] of St. Clairsville, Ohio, until 12 o'[illegible] noon, Central Standard time, on Frid[illegible] March 1, 1907, for grading, curbing and [illegible] Main Street with vitrified paving bri[illegible] block. Specifications and blank for[illegible] bidders will be furnished upon applic[illegible] to the undersigned.

JOHN C. [illegible]OLS, Clerk.

Specifications on file a[illegible] offices of the Engineering News in New [illegible] and Chicago. 6-1t

WATER P[illegible]

[illegible]wich, Conn.

Sealed proposals for l[illegible] about 12,000 feet of cast iron pipe w[illegible] received by The Greenwich Water [illegible]any, until 4 o'clock P. M., on Friday, [illegible]ary 15, 1907.

Plans and specification[illegible] be seen at the office of Albert B. [illegible] 100 Crown Street, New Haven, Conn[illegible] at the office of S. E. Minor, Room 5, [illegible]ust Company Building, Greenwich, Conn.

The right is reserved to [illegible]ct any or all bids.

R. [illegible]Y WALSH,
President.

Greenwich, Conn., Feb. 6, [illegible]07. 6-1t

SEALED PROPOSALS.—F[illegible]t Monroe, Va., Feb. 5th, 1907.—Sealed prop[illegible]ls in triplicate for the extension of the w[illegible]r distributing system, at Fort Monroe, Va., will be received at the office of the Constr[illegible]ting Quartermaster, until noon, March 7th, 1907. The United States reserves the r[illegible]t to accept or reject any or all propos[illegible] or any part thereof. Bidders must sta[illegible] the name of manufacturers supplying th[illegible]m with material. Information furnished on application. Bids should be plainly mark[illegible]d as such on the outside wrapper or envelope. Address CAPTAIN R. H. C. KELTON, Q.-M. 6-4t

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MUNICIPAL CIVIL SERVICE COMMISSION
299 Broadway,
New York, February 6, 1907.

Public notice is hereby given that applications will be received from Thursday, February 7, at 9 A. M., until 4 P. M., Thursday, February 21, 1907, for the position of Rodman, Board of Water Supply. The examination will be held on Tuesday, March 5, 1907, at 10 A. M. The minimum age is 18 years.

For scope of examination and further information, apply to the Secretary.

FRANK A. SPENCER,
6-2t Secretary.

SITUATIONS OPEN

WANTED—Superintendent for shaft sinking near Pittsburg. Shafts to be sunk for coal and timbered throughout. Please state experience and salary expected. Address "A. A. 6," Engineering News, New York. 6-3t

WANTED AT ONCE—An experienced Superintendent or General Foreman on heavy and reinforced concrete work. Good organizer and hustler. Preferably an engineer. Write, stating experience, references, and least salary expected. Address ALSOP & PEIRCE, Newport News, Virginia. 6-2t

Miscellaneous Wants

SECOND-HAND CONTRACTOR'S PLANT in good condition, concrete mixer, derricks, bucket, slips, carts, shovels, wheelbarrows and other small tools, new value about $1,700.00, to be sold together. Traction engine, 13 HP., separate. All near New York. Another lot similar to above but including industrial track, cars, engine, pumps, etc., at Norfolk, Va., new value about $1,800.00. Apply ROOM H, 10th floor, 220 Broadway, or telephone 1941 Cortlandt. 6-1t

FOR SALE.

Factory Site of Fifty-seven Acres in Wilmington,

Delaware, within ten minu[illegible]' walk from Pennsylvania Depot; three [illegible]lroad connections; 1,500 ft. of water fr[illegible] on navigable river; no city taxes for 10 [illegible]ars. Address E. KRELL, Narberth, Pa. 6-3t

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PLAIN LETT[illegible]RING

BY PROF. HENRY S. [illegible]ACOBY

Most comprehensive book o[illegible] this subject. Contains standards of U. S. E[illegible]gineer Corps, U. S. Geological and Geodetic Surveys, and Mississippi River Commissio[illegible]. Cloth, 10x7 inches; 83 pag[illegible], Price $[illegible]